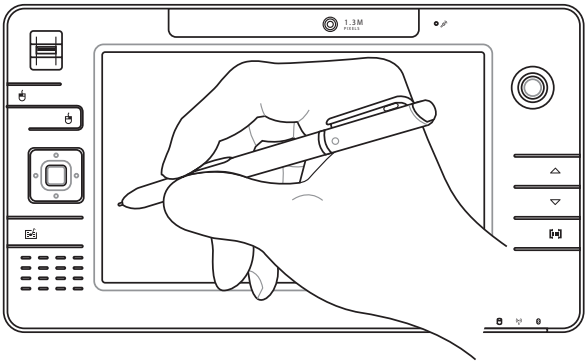
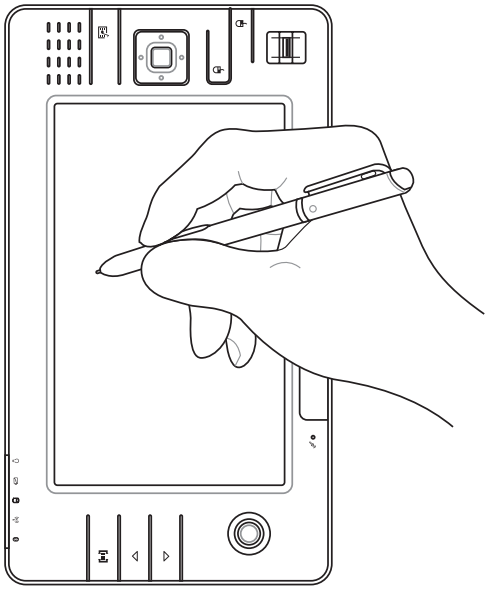
UltraMobilePC (UMPC)

Hardware User's Manual





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1. Introducing the UltraMobilePC

About This User's Manual

Notes For This Manual

Safety Precautions

Preparing your UltraMobilePC

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About This User's Manual

You are reading the UltraMobilePC User's Manual. This User's Manual provides information on the various components in the UltraMobilePC and how to use them. The following are major sections of this User's Manuals:

1. **Introducing the UltraMobilePC**
   Introduces you to the UltraMobilePC and this User's Manual.
2. **Knowing the Parts**
   Gives you information on the UltraMobilePC's components.
3. **Getting Started**
   Gives you information on getting started with the UltraMobilePC.
4. **Using the UltraMobilePC**
   Gives you information on using the UltraMobilePC's components.
5. **Appendix**
   Introduces you to optional accessories and gives additional information.

Notes For This Manual

A few notes and warnings in bold are used throughout this guide that you should be aware of in order to complete certain tasks safely and completely. These notes have different degrees of importance as described below:

WARNING! Important information that must be followed for safe operation.

TIP: Tips and useful information for completing tasks.

IMPORTANT! Vital information that must be followed to prevent damage to data, components, or persons.

NOTE: Tips and information for special situations.

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Safety Precautions

The following safety precautions will increase the life of the UltraMobilePC. Follow all precautions and instructions. Except as described in this manual, refer all servicing to qualified personnel. Do not use damaged power cords, accessories, or other peripherals. Do not use strong solvents such as thinners, benzene, or other chemicals on or near the surface.

IMPORTANT! Disconnect the AC power and remove the battery pack(s) before cleaning. Wipe the UltraMobilePC using a clean cellulose sponge or chamois cloth dampened with a solution of nonabrasive detergent and a few drops of warm water and remove any extra moisture with a dry cloth.

DO NOT place on uneven or unstable work surfaces. Seek servicing if the casing has been damaged.

DO NOT place or drop objects on top and do not shove any foreign objects into the UltraMobilePC.

DO NOT scratch the display panel. Do not place together with small items that may scratch or enter the UltraMobilePC vents.

DO NOT expose to strong magnetic or electrical fields.

DO NOT expose to dirty or dusty environments. **DO NOT** operate during a gas leak.

DO NOT expose to or use near liquids, rain, or moisture. **DO NOT** use the modem during an electrical storm.

DO NOT leave the UltraMobilePC on your lap or any part of the body in order to prevent discomfort or injury from heat exposure.

Battery safety warning:
DO NOT throw the battery in fire.
DO NOT short circuit the contacts.
DO NOT disassemble the battery.

SAFE TEMP: This UltraMobilePC should only be used in environments with ambient temperatures between 5°C (41°F) and 35°C (95°F)

INPUT RATING: Refer to the rating label on the bottom of the UltraMobilePC and be sure that your power adapter complies with the rating.

DO NOT throw the UltraMobilePC in municipal waste. Check local regulations for disposal of electronic products.

DO NOT carry or cover a UltraMobilePC that is powered ON with any materials that will reduce air circulation such as a carrying bag.

Models with 3G[1]: Produces radio wave emissions that may cause electrical interferences and must be used in places that do not prohibit such devices. Take precautions while using.

WARNING! The 3G function needs to be switched OFF in areas with potentially explosive atmospheres such as petrol (gas) stations, chemical storage depots, and blasting operations.

[1] (See end of Section 4 for definition)

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Transportation Precautions

To prepare the UltraMobilePC for transport, you should turn it OFF and **disconnect all external peripherals to prevent damage to the connectors**. The hard disk drive's head retracts when the power is turned OFF to prevent scratching of the hard disk surface during transport. Therefore, you should not transport the UltraMobilePC while the power is still ON.

Cover Your UltraMobilePC

You can purchase an optional carrying case to protect it from dirt, water, shock, and scratches.

CAUTION: The UltraMobilePC's surface is easily dulled if not properly cared for. Be careful not to rub or scrape the UltraMobilePC surfaces when transporting your UltraMobilePC.

Charge Your Batteries

If you intend to use battery power, be sure to fully charge your battery pack and any optional battery packs before going on long trips. Remember that the power adapter charges the battery pack as long as it is plugged into the computer and an AC power source. Be aware that it takes much longer to charge the battery pack when the UltraMobilePC is in use.

Airplane Precautions

Contact your airline if you want to use the UltraMobilePC on the airplane. Most airlines will have restrictions for using electronic devices. Most airlines will allow electronic use only between and not during takeoffs and landings.

CAUTION! There are three main types of airport security devices: X-ray machines (used on items placed on conveyor belts), magnetic detectors (used on people walking through security checks), and magnetic wands (hand-held devices used on people or individual items). You can send your UltraMobilePC and diskettes through airport X-ray machines. However, it is recommended that you do not send your UltraMobilePC or diskettes through airport magnetic detectors or expose them to magnetic wands.

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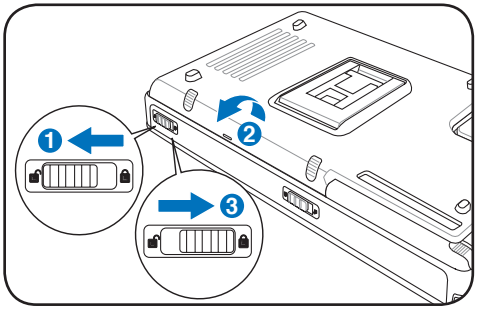
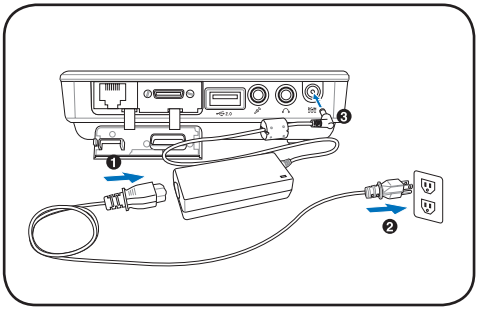
Preparing your UltraMobilePC

These are only quick instructions for using your UltraMobilePC. Read the later pages for detailed information on using your UltraMobilePC.

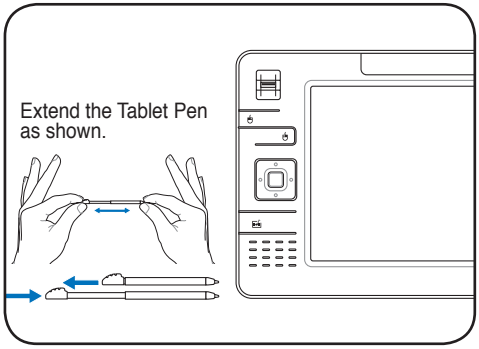
1. Install the battery pack



2. Connect the AC Power Adapter

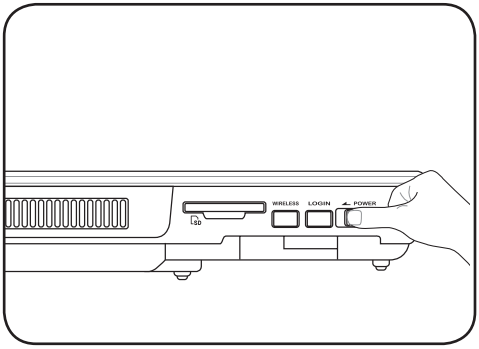


3. Remove the Tablet Pen



Then Tablet Pen can be inserted in the extended form and then contracted while pressing the Tablet Pen flush with the UltraMobilePC.

4. Turn ON the UltraMobilePC



Slide the power switch and release.

The power switch turns ON and OFF the UltraMobilePC or putting the UltraMobilePC into sleep or hibernation modes. Actual behavior of the power switch can be customized in Windows Control Panel > Power Options > **System Settings**.

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2. Knowing the Parts

Basic sides of the UltraMobilePC

NOTE: Photos and icons in this manual are used for artistic purposes only and do not show what is actually used in the product itself.

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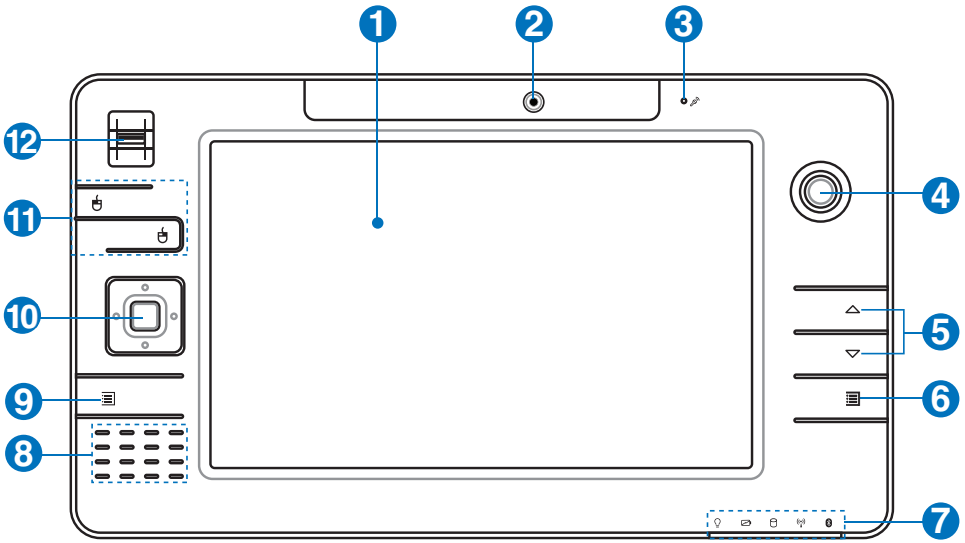
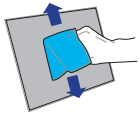
Front Side

Refer to the diagram below to identify the components on this side of the UltraMobilePC.



1 Display Panel

The display panel functions the same as a desktop monitor. The UltraMobilePC uses an active matrix TFT LCD, which provides excellent viewing like that of desktop monitors. Unlike desktop monitors, the LCD panel does not produce any radiation or flickering, so it is easier on the eyes. Use a soft cloth without chemical liquids (use plain water if necessary)



2 Camera

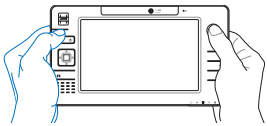
The built-in camera allows picture taking or video recording. Can be used with video conferencing and other interactive applications.

3 Microphone (Built-in)

The built-in mono microphone can be used for video conferencing, voice narrations, or simple audio recordings.

4 Thumbstick Cursor Control

The thumbstick cursor control with its left and right cursor buttons is a pointing device that provides the same functions as a desktop mouse.



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❺ Page Up & Page Down

The Page Up and Page Down buttons act the same way as those on a keyboard.

❻ UltraMobilePC Settings Button

The UltraMobilePC settings button bring up an easy menu to customize the UltraMobilePC to your desire.

❼ Status Indicators

Status indicators represent various conditions. Details are described in section 3.

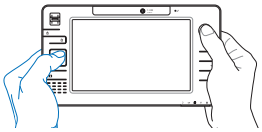
❽ Audio Speaker

The built-in speaker system allows you to hear audio without additional attachments. The multimedia sound system features an integrated digital audio controller that produces rich, vibrant sound (results improved with external stereo headphones or speakers). Audio features are software controlled.

❾ Microsoft Touch Pack Key

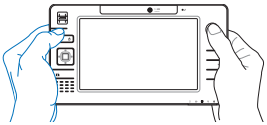
Pressing this button will launch a software built exclusively for UMPCs (Ultra Mobile Personal Computers) called Microsoft Touch Pack.

❿ Direction & Enter Buttons



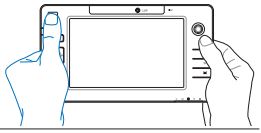
The direction (Up/Down, Left/Right) and Enter (center) buttons act the same way as those on a keyboard.

⓫ Thumbstick Cursor Buttons



The thumbstick cursor control with its left and right cursor buttons is a pointing device that provides the same functions as a desktop mouse.

⓬ Fingerprint Scanner



The built-in fingerprint scanner allows use of security software using your fingerprint as your identification key.

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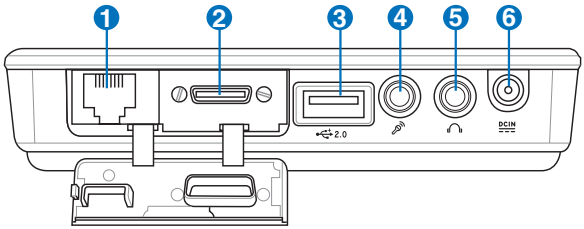
Right Side

Refer to the diagram below to identify the components on this side of the UltraMobilePC.



1 LAN Port (disabled when using PortBar)

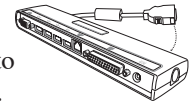
The RJ-45 LAN port with eight pins is larger than the RJ-11 modem port and supports a standard Ethernet cable for connection to a local network. The built-in connector allows convenient use without additional adapters.

Note: An active LAN cable must be connected in order for Windows device manager to detect the built-in LAN. For the same reason, an active LAN cable must be connected when installing a LAN driver.

2 Expansion Port

combo

The expansion port provides an easy-to-use PortBar docking solution to desktop peripherals and other accessories through a single connector.



Notes: (1) AC power adapter must be used. Cannot be used when UltraMobilePC is in battery mode. (2) Recommend using two AC power adapters (one on the UltraMobilePC and one on the PortBar) when using all ports on UltraMobilePC and PortBar. (3) Disables UltraMobilePC's LAN port when connected.

Display (Monitor) Output (with provided adapter)

The provided VGA adapter for the expansion port will provide a 15-pin D-sub analog output to support a standard VGA-compatible device such as a monitor or projector to allow displaying on a larger external monitor.

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❸ USB Port (2.0/1.1)

The USB (Universal Serial Bus) port is compatible with USB 2.0 or USB 1.1 devices such as keyboards, pointing devices, cameras, hard disk drives, printers, and scanners connected in a series up to 12Mbits/sec (USB 1.1) and 480Mbits/sec (USB 2.0). USB allows many devices to run simultaneously on a single computer, with some peripherals acting as additional plug-in sites or hubs. USB supports hot-swapping of devices so that most peripherals can be connected or disconnected without restarting the computer.

❹ Microphone Input Jack

The mono microphone jack (1/8 inch) can be used to connect an external microphone or output signals from audio devices. Using this jack automatically disables the built-in microphone. Use this feature for video conferencing, voice narrations, or simple audio recordings.

❺ Headphone Output Jack

The stereo headphone jack (1/8 inch) is used to connect the UltraMobilePC's audio out signal to amplified speakers or headphones. Using this jack automatically disables the built-in speakers.

❻ Power (DC) Input

The supplied power adapter converts AC power to DC power for use with this jack. Power supplied through this jack supplies power to the UltraMobilePC and charges the internal battery pack. To prevent damage to the UltraMobilePC and battery pack, always use the supplied power adapter. **CAUTION: MAY BECOME WARM TO HOT WHEN IN USE. BE SURE NOT TO COVER THE ADAPTER AND KEEP IT AWAY FROM YOUR BODY.**

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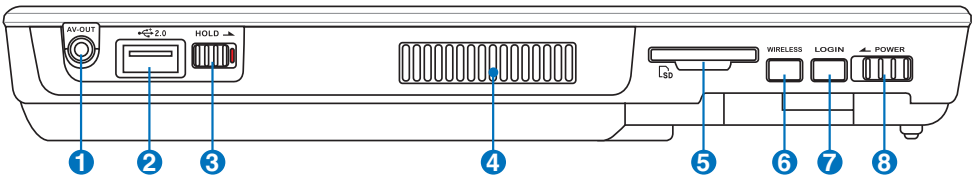
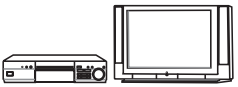
Top Side

Refer to the diagram below to identify the components on this side of the UltraMobilePC.



1 AV-OUT

Audio/Video output port for connection to analog audio/video devices such as televisions or video recorders.



2 USB Port (2.0/1.1)

The USB (Universal Serial Bus) port is compatible with USB 2.0 or USB 1.1 devices such as keyboards, pointing devices, cameras, hard disk drives, printers, and scanners connected in a series up to 12Mbits/sec (USB 1.1) and 480Mbits/sec (USB 2.0). USB allows many devices to run simultaneously on a single computer, with some peripherals acting as additional plug-in sites or hubs. USB supports hot-swapping of devices so that most peripherals can be connected or disconnected without restarting the computer.

3 HOLD Hold Key

When enabled, the buttons and the touchscreen will be disabled but the UltraMobilePC will continue to function (such as playing music).

4 Air Vents

The air vents allow cool air to enter and warm air to exit the system.

IMPORTANT! Make sure that paper, books, clothing, cables, or other objects do not block any of the air vents or else overheating may occur.

5 SD Memory Slot

This UltraMobilePC has a built-in SD memory card reader that can read SD flash memory cards from devices such as digital cameras, MP3 players, mobile phones, and PDAs. The built-in SD memory card reader is not only convenient, but also faster than most external SD memory card readers.

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6 WIRELESS Wireless Switch

Enables or disables the built-in wireless LAN and Bluetooth (selected models). When enabled, the wireless status indicator will light. Windows software settings are necessary before use.

7 LOGIN LOGIN Button

The LOGIN button sends a [Ctrl][Alt][Del] keyboard combination to the operating system to show Windows Security for logging in/off, locking, shutting down, showing task manager, or changing passwords. This special login feature is also known as Secure Attention Sequence (SAS).

8 POWER Power Switch

The power switch turns ON and OFF the UltraMobilePC or putting the UltraMobilePC into sleep or hibernation modes. Actual behavior of the power switch can be customized in Windows Control Panel “Power Options.”

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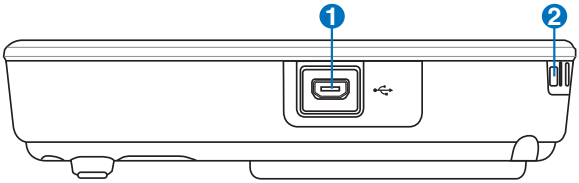
Left Side

Refer to the diagram below to identify the components on this side of the UltraMobilePC.



1 Mini-USB Port (Type A)

The mini-USB (Universal Serial Bus) port is for connection to the optional external USB keyboard.

2 Wrist strap hook

The wrist strap hook is for use with the wrist strap to prevent accidentally dropping the UltraMobilePC when holding it in your hands.

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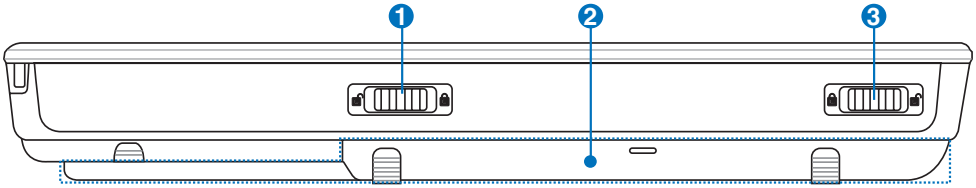
Bottom Side

Refer to the diagram below to identify the components on this side of the UltraMobilePC.



1 Battery Lock - Spring

The spring battery lock is used to keep the battery pack secured. When the battery pack is inserted, it will automatically lock. To remove the battery pack, this spring lock must be held in the unlocked position.

2 Battery Pack

The battery pack is automatically charged when the UltraMobilePC is connected to an AC power source and maintains power to the UltraMobilePC when AC power is not connected. This allows use when moving temporarily between locations. Battery time varies by usage and by the specifications for this UltraMobilePC. The battery pack cannot be disassembled and must be purchased as a single unit from an authorized retailer.

3 Battery Lock - Manual

The manual battery lock is used to keep the battery pack secured. Move the manual lock to the unlocked position to insert or remove the battery pack. Move the manual lock to the locked position after inserting the battery pack.

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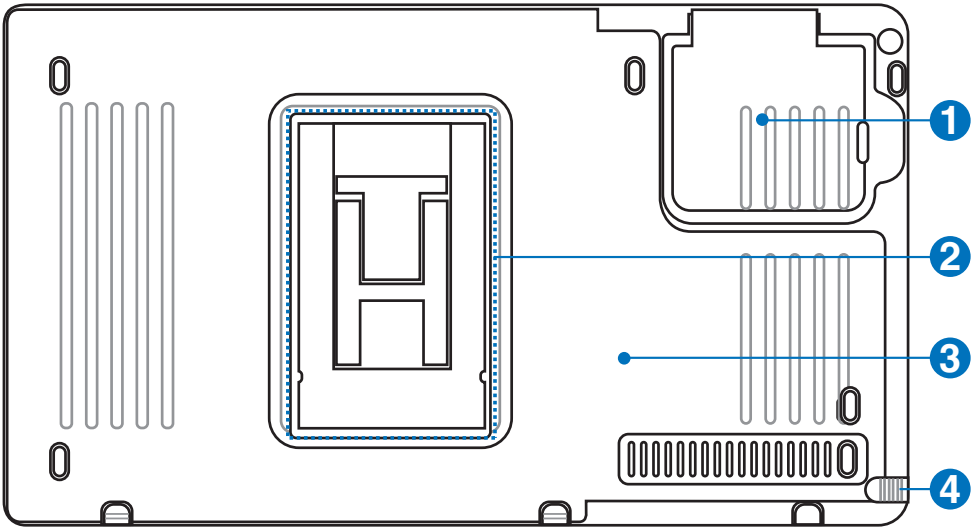
Back Side

Refer to the diagram below to identify the components on this side of the UltraMobilePC.



1 GPS Antenna (built-in)

The GPS antenna can be flipped up for better reception or flipped down when not in use. The GPS antenna is used by the built-in SiRF3 GPS chipset. Together, the built-in GPS can be used with various navigation software applications without additional attachments.

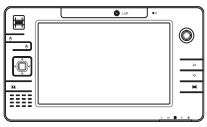
2 Support Stand

The battery pack is equipped with a foldable support stand for the UltraMobilePC to stand up on a flat surface for easy viewing.

3 Battery Pack

The battery pack is automatically charged when the UltraMobilePC is connected to an AC power source and maintains power to the UltraMobilePC when AC power is not connected. This allows use when moving temporarily between locations. Battery time varies by usage and by the specifications for this UltraMobilePC. The battery pack cannot be disassembled and must be purchased as a single unit from an authorized retailer.

4 Touchscreen Pen Compartment



This compartment allows storage of the pen used on the touchscreen panel. Note: The touchscreen pen replicates cursor functions on the touchscreen and does not have electronic components.

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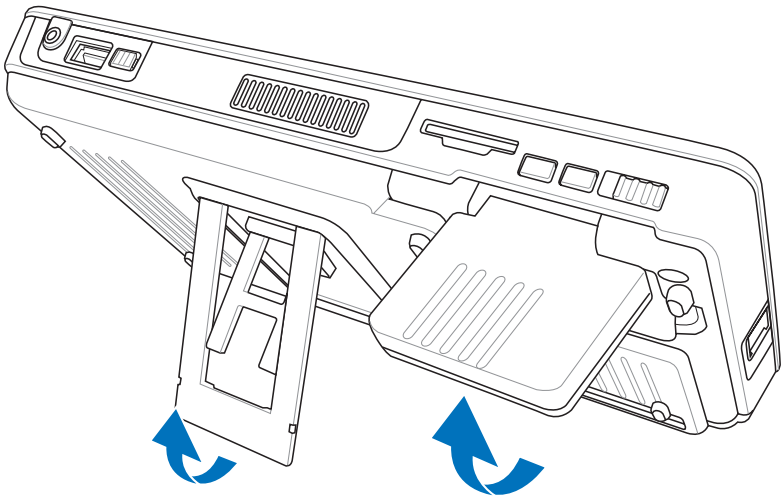
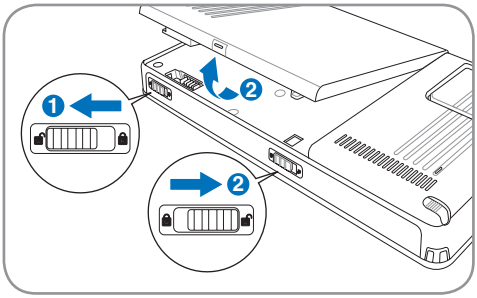
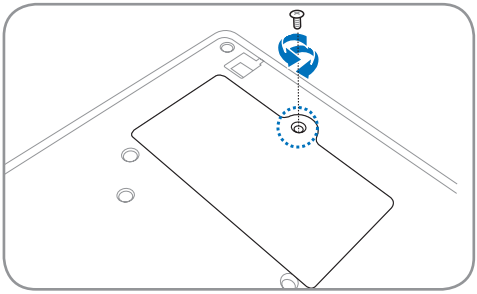
Back Side (cont.)

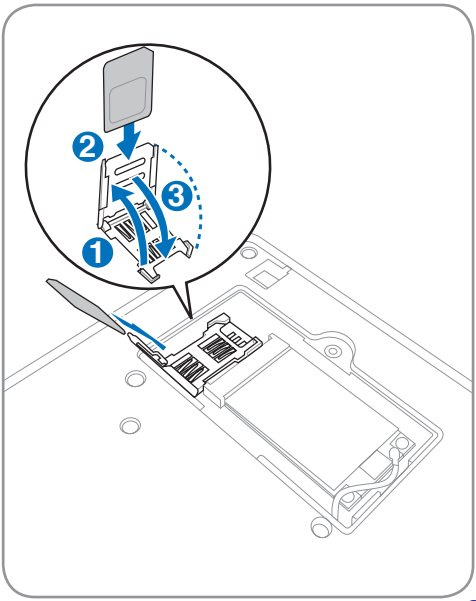
The support stand and GPS antenna can flip out as illustrated when using them. Flip them back in for easy handling or transport.



SIM card location and installation







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3. Getting Started

Using AC Power
Using Battery Power
Powering ON the UltraMobilePC
Checking Battery Power
Restarting or Rebooting
Powering OFF the UltraMobilePC
Status Indicators

NOTE: Photos and icons in this manual are used for artistic purposes only and do not show what is actually used in the product itself.

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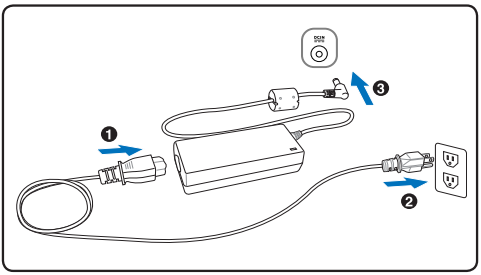
Power System

Using AC Power



The UltraMobilePC power is comprised of two parts, the power adapter and the battery power system. The power adapter converts AC power from a wall outlet to the DC power required by the UltraMobilePC. Your UltraMobilePC comes with a universal AC-DC adapter. That means that you may connect the power cord to any 100V-120V as well as 220V-240V outlets without setting switches or using power converters. Different countries may require that an adapter be used to connect the provided US-standard AC power cord to a different standard. Most hotels will provide universal outlets to support different power cords as well as voltages. It is always best to ask an experienced traveler about AC outlet voltages when bringing power adapters to another country.

TIP: You can buy travel kits for the UltraMobilePC that includes power and modem adapters for almost every country.

With the AC power cord connected to the AC-DC converter, connect the AC power cord to an AC outlet (preferably with surge-protection) and then connect the DC plug to the UltraMobilePC. Connecting the AC-DC adapter to the AC outlet first allows you to test the AC outlet's power and the AC-DC converter itself for compatibility problems before connecting the DC power to the UltraMobilePC. The power indicator on the adapter (if available) will light if the power is within accepted ranges.

IMPORTANT! Damage may occur if you use a different adapter to power the UltraMobilePC or use the UltraMobilePC's adapter to power other electrical devices. If there is smoke, burning scent, or extreme heat coming from the AC-DC adapter, seek servicing. Seek servicing if you suspect a faulty AC-DC adapter. You may damage both your battery pack(s) and the UltraMobilePC with a faulty AC-DC adapter.

NOTE: This UltraMobilePC may come with either a two or three-prong plug depending on territory. If a three-prong plug is provided, you must use a grounded AC outlet or use a properly grounded adapter to ensure safe operation of the UltraMobilePC.

WARNING! THE POWER ADAPTER MAY BECOME WARM TO HOT WHEN IN USE. BE SURE NOT TO COVER THE ADAPTER AND KEEP IT AWAY FROM YOUR BODY.

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Using Battery Power

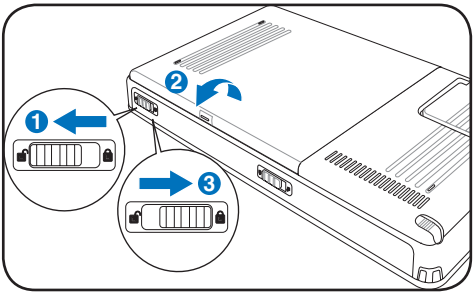
The UltraMobilePC is designed to work with a removable battery pack. The battery pack consists of a set of battery cells housed together. A fully charged pack will provide several hours of battery life, which can be further extended by using power management features through the BIOS setup. Additional battery packs are optional and can be purchased separately through a retailer.

Installing and Removing the Battery Pack

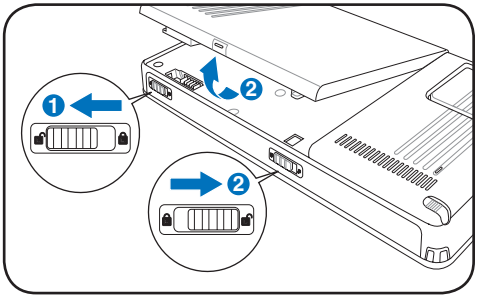
Your UltraMobilePC may or may not have its battery pack installed. If your UltraMobilePC does not have its battery pack installed, use the following procedures to install the battery pack.

IMPORTANT! Never attempt to remove the battery pack while the UltraMobilePC is turned ON, as this may result in the loss of working data.

To install the battery pack:



To remove the battery pack:



IMPORTANT! Only use battery packs and power adapters supplied with this UltraMobilePC or specifically approved by the manufacturer or retailer for use with this model or else damage may occur to the UltraMobilePC.

Battery Care

The UltraMobilePC's battery pack, like all rechargeable batteries, has a limit on the number times it can be recharged. The battery pack's useful life will depend on your environment temperature, humidity, and how your UltraMobilePC is used. It is ideal that the battery be used in a temperature range between 5°C and 35°C (41°F and 95°F). You must also take into account that the UltraMobilePC's internal temperature is higher than the outside temperature. Any temperatures above or below this range will shorten the life of the battery. But in any case, the battery pack's usage time will eventually decrease and a new battery pack must be purchased from an authorized dealer for this UltraMobilePC. Because batteries also have a shelf life, it is not recommended to buy extras for storing.

WARNING! For safety reasons, DO NOT throw the battery in fire, DO NOT short circuit the contacts, and DO NOT disassemble the battery. If there is any abnormal operation or damage to the battery pack caused by impact, turn OFF the UltraMobilePC and contact an authorized service center.

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Powering ON the UltraMobilePC

The UltraMobilePC's power-ON message appears on the screen when you turn it ON. If necessary, you may adjust the brightness by using the hotkey. If you need to run the BIOS Setup to set or modify the system configuration, press [F2] upon bootup to enter the BIOS Setup. If you press [Tab] during the splash screen, standard boot information such as the BIOS version can be seen. Press [ESC] and you will be presented with a boot menu with selections to boot from your available drives.

NOTE: Before bootup, the display panel flashes when the power is turned ON. This is part of the UltraMobilePC's test routine and is not a problem with the display.

IMPORTANT! To protect the hard disk drive, always wait at least 5 seconds after turning OFF your UltraMobilePC before turning it back ON.

WARNING! DO NOT carry or cover a UltraMobilePC that is powered ON with any materials that will reduce air circulation such as a carrying bag.

The Power-On Self Test (POST)

When you turn ON the UltraMobilePC, it will first run through a series of software-controlled diagnostic tests called the Power-On Self Test (POST). The software that controls the POST is installed as a permanent part of the UltraMobilePC's architecture. The POST includes a record of the UltraMobilePC's hardware configuration, which is used to make a diagnostic check of the system. This record is created by using the BIOS Setup program. If the POST discovers a difference between the record and the existing hardware, it will display a message on the screen prompting you to correct the conflict by running BIOS Setup. In most cases the record should be correct when you receive the UltraMobilePC. When the test is finished, you may get a message reporting "No operating system found" if the hard disk was not preloaded with an operating system. This indicates that the hard disk is correctly detected and ready for the installation of a new operating system.

The S.M.A.R.T. (Self Monitoring and Reporting Technology) checks the hard disk drive during POST and gives a warning message if the hard disk drive requires servicing. If any critical hard disk drive warning is given during bootup, backup your data immediately and run Windows disk checking program. To run Window's disk checking program: (1) right-click any hard disk drive icon in "My Computer", (2) choose Properties, (3) click the Tools tab, (4) click Check Now, (5) select a hard disk drive, (6) select Thorough to also check for physical damages, and (7) click Start. Third party disk utilities such as Symantec's Norton Disk Doctor can also perform the same functions but with greater ease and more features.

IMPORTANT! If warnings are still given during bootup after running a software disk checking utility, you should take your UltraMobilePC in for servicing. Continued use may result in data loss.

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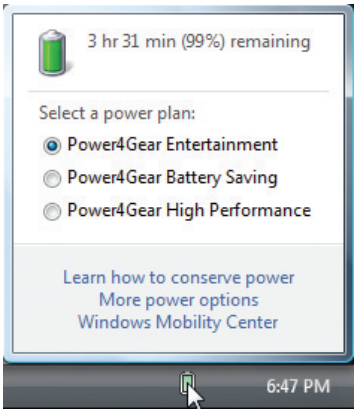
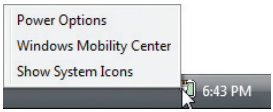
Checking Battery Power

The battery system implements the Smart Battery standard under the Windows environment, which allows the battery to accurately report the amount of charge left in the battery. A fully-charged battery pack provides the UltraMobilePC a few hours of working power. But the actual figure varies depending on how you use the power saving features, your general work habits, the CPU, system memory size, and the size of the display panel.

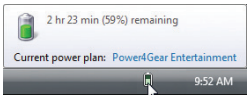
Note: Screen captures shown here are examples only and may not reflect what you see in your system.



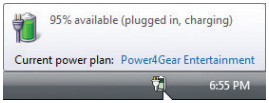
Left-click the battery icon



Right-click the battery icon



Cursor over the battery icon without power adapter.



Cursor over the battery icon with power adapter.

NOTE: You will be warned when battery power is low. If you continue to ignore the low battery warnings, the UltraMobilePC eventually enters suspend mode (Windows default uses STR).

WARNING! Suspend-to-RAM (STR) does not last long when the battery power is depleted. Suspend-to-Disk (STD) is not the same as power OFF. STD requires a small amount of power and will fail if no power is available due to complete battery depletion or no power supply (e.g. removing both the power adapter and battery pack).

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Charging the Battery Pack

Before you use your UltraMobilePC on the road, you will have to charge the battery pack. The battery pack begins to charge as soon as the UltraMobilePC is connected to external power using the power adapter. Fully charge the battery pack before using it for the first time. A new battery pack must completely charge before the UltraMobilePC is disconnected from external power. It takes a few hours to fully charge the battery when the UltraMobilePC is turned OFF and may take twice the time when the UltraMobilePC is turned ON. The battery status indicator on the UltraMobilePC turns OFF when the battery pack is charged.

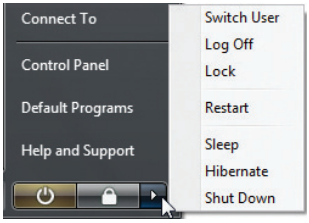
NOTE: The battery stops charging if the temperature is too high or the battery voltage is too high. BIOS provides a smart battery refreshing function. If the battery calibration process fails, stop charging and contact an authorized service center.

WARNING! Do not leave the battery pack discharged. The battery pack will discharge over time. If not using a battery pack, it must continued to be charged every three months to extend recovery capacity or else it may fail to charge in the future.

Power Options

The power switch turns ON and OFF the UltraMobilePC or putting the UltraMobilePC into sleep or hibernation modes. Actual behavior of the power switch can be customized in Windows Control Panel "Power Options."

For other options, such as "Switch User, Restart, Sleep, or Shut Down," click the arrowhead next to the lock icon.



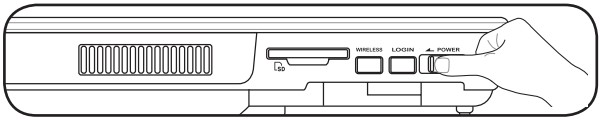
Restarting or Rebooting

After making changes to your operating system, you may be prompted to restart the system. Some installation processes will provide a dialog box to allow restart. To restart the system manually, choose **Restart**.

IMPORTANT! To protect the hard drive, wait at least 5 seconds after turning OFF your UltraMobilePC before turning it back ON.

Emergency Shutdown

In case your system cannot properly turn OFF or restart, hold the power button ⏻ over 4 seconds.



IMPORTANT! Do not use emergency shutdown while data is being written; doing so can result in loss or destruction of your data.

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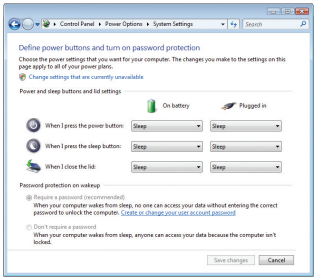
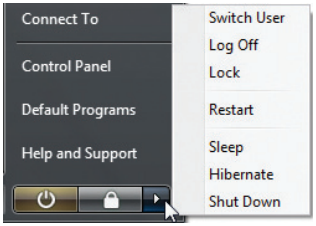
Power Management Modes

The UltraMobilePC has a number of automatic or adjustable power saving features that you can use to maximize battery life and lower Total Cost of Ownership (TCO). You can control some of these features through the Power menu in the BIOS Setup. ACPI power management settings are made through the operating system. The power management features are designed to save as much electricity as possible by putting components into a low power consumption mode as often as possible but also allow full operation on demand.

Sleep and Hibernate



Power management settings can be found in the Windows > Control Panel > **Power Options**. In **System Settings**, you can define "Sleep/Hibernate" or "Shut Down" for closing the display panel or pressing the power button. "Sleep" and "Hibernate" saves power when your UltraMobilePC is not in use by turning OFF certain components. When you resume your work, your last status (such as a document scrolled down half way or email typed half way) will reappear as if you never left. "Shut Down" will close all applications and ask if you want to save your work if any are not saved.



Sleep is the same as Suspend-to-RAM (STR). This function stores your current data and status in RAM while many components are turned OFF. Because RAM is volatile, it requires power to keep (refresh) the data. Click the **Start** button and the arrowhead next to the lock icon to see this option. (NOTE: The power indicator will blink in this mode.)

Hibernate is the same as Suspend-to-Disk (STD) and stores your current data and status on the hard disk drive. By doing this, RAM does not have to be periodically refreshed and power consumption is greatly reduced but not completely eliminated because certain wake-up components like LAN needs to remain powered. "Hibernate" saves more power compared to "Sleep". Click the **Start** button and the arrowhead next to the lock icon to see this option. Recover by pressing the power button. (NOTE: The power indicator will be OFF in this mode.)

Thermal Power Control

There are three power control methods for controlling the UltraMobilePC's thermal state. These power control cannot be configured by the user and should be known in case the UltraMobilePC should enter these states. The following temperatures represent the chassis temperature (not CPU).

- The fan turns ON for active cooling when the temperature reaches the safe upper limit.
- The CPU decreases speed for passive cooling when the temperature exceeds the safe upper limit.
- The system shut down for critical cooling when temperature exceeds the maximum safe upper limit.

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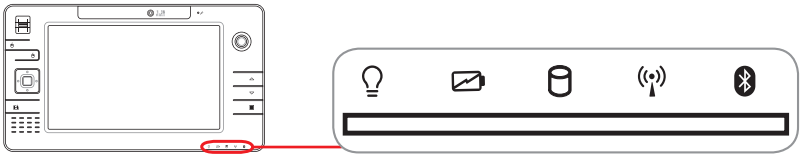
Status Indicators



Power Indicator

The power indicator lights when the UltraMobilePC is turned ON and blinks slowly when the UltraMobilePC is in the Suspend-to-RAM (Standby) mode. This indicator is OFF when the UltraMobilePC is turned OFF or in the Suspend-to-Disk (Hibernation) mode.

Battery Charge Indicator

The battery charge indicator shows the status of the battery's power as follows:

ON: The UltraMobilePC's battery is charging when AC power is connected.
OFF: The UltraMobilePC's battery is charged or completely drained.
Blinking: Battery power is less than 10% and the AC power is not connected.

Drive Activity Indicator

Indicates that the UltraMobilePC is accessing one or more storage device(s) such as the hard disk. The light flashes proportional to the access time.

Wireless LAN Indicator

When the built-in wireless LAN is enabled, this indicator will light. (Windows software settings are necessary to use this function.)

Bluetooth Indicator

This is only applicable on models with internal Bluetooth. This indicator will light to show that the UltraMobilePC's built-in Bluetooth function is activated.

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4. Using the UltraMobilePC

Display Calibration

Connections

- Network Connection
- Wireless LAN Connection
- Bluetooth Wireless Connection

Power Management Modes

Fingerprint Scanner

GPS Software

NOTE: Photos and icons in this manual are used for artistic purposes only and do not show what is actually used in the product itself.

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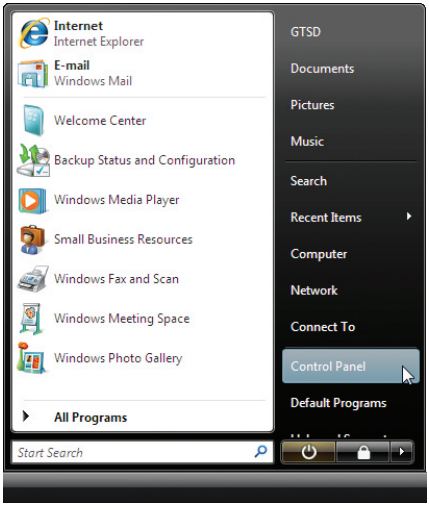
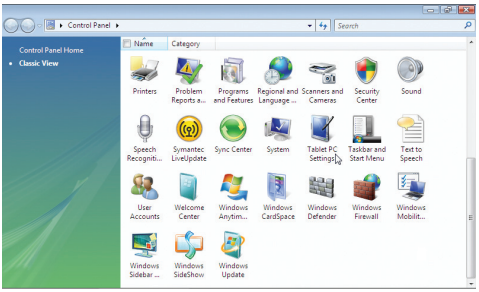
Display Calibration

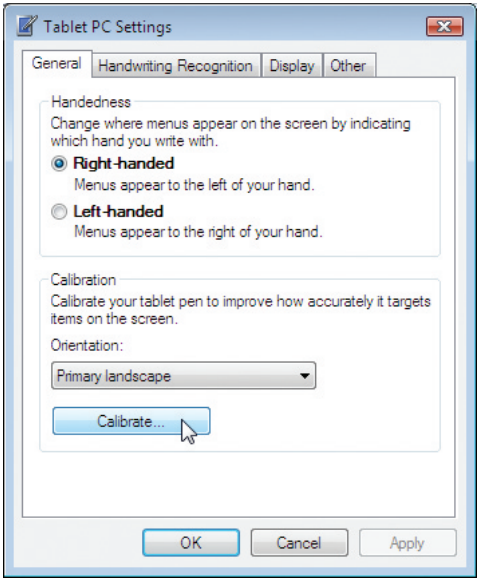
MS Windows Vista



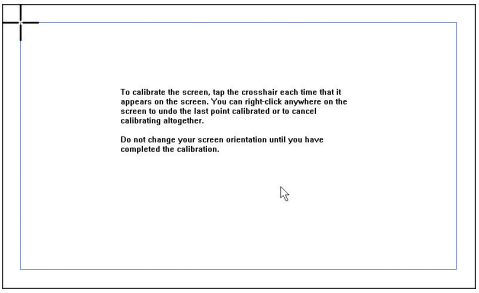
1. Launch **Control Panel** from Windows **Start**.



2. Double click **Tablet PC Settings** icon.



3. Click the **Calibrate** button on the “General” page.


To calibrate the screen, tap the crosshair each time that it appears on the screen. You can right-click anywhere on the screen to undo the last point calibrated or to cancel calibrating altogether.
Do not change your screen orientation until you have completed the calibration.

4. Carefully tap the center of each cross hair that appears near each corner to complete the calibration process.

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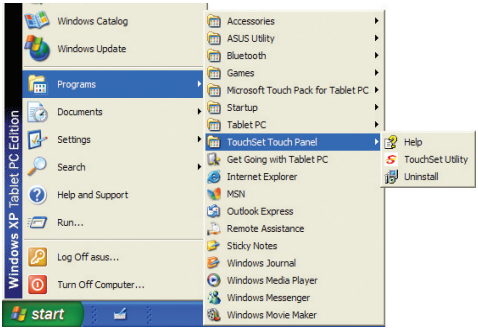
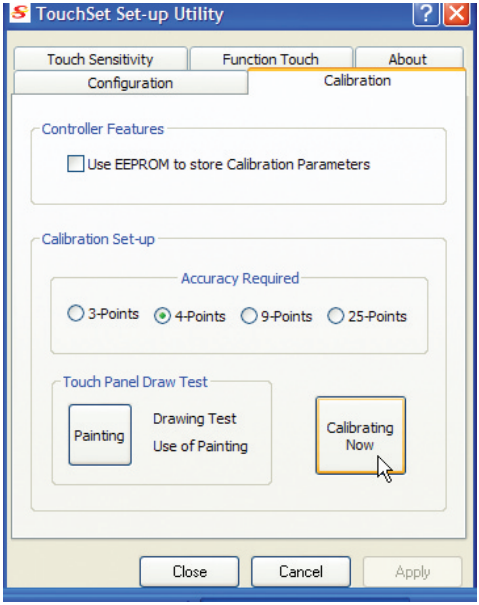
Display Calibration (cont.)

MS Windows XP

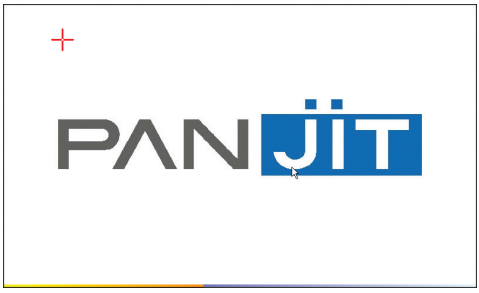
1. Double click the **TouchSet Utility** icon on the desktop.



2. Or launch **TouchSet Utility** through Windows Start.



3. Click the **Calibration** tab and click the **Calibrating Now** button.



4. Carefully tap the center of each cross hair that appears near each corner to complete the calibration process.

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Connections

Network Connection

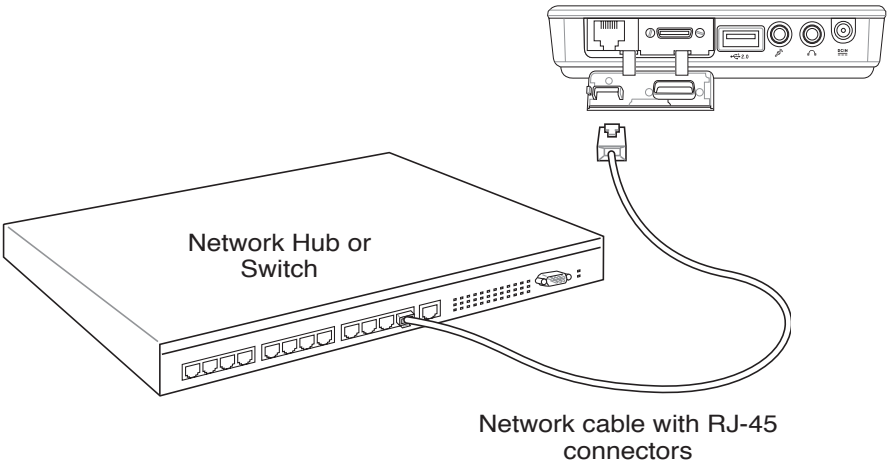
Connect a network cable, with RJ-45 connectors on each end, to the modem/network port on the UltraMobilePC and the other end to a hub or switch. For 100 BASE-TX / 1000 BASE-T speeds, your network cable must be category 5 or better (not category 3) with twisted-pair wiring. If you plan on running the interface at 100/1000Mbps, it must be connected to a 100 BASE-TX / 1000 BASE-T hub (not a BASE-T4 hub). For 10Base-T, use category 3, 4, or 5 twisted-pair wiring. 10/100 Mbps Full-Duplex is supported on this UltraMobilePC but requires connection to a network switching hub with "duplex" enabled. The software default is to use the fastest setting so no user-intervention is required.

1000BASE-T (or Gigabit) is only supported on selected models.

Twisted-Pair Cable

The cable used to connect the Ethernet card to a host (generally a Hub or Switch) is called a straight-through Twisted Pair Ethernet (TPE). The end connectors are called RJ-45 connectors, which are not compatible with RJ-11 telephone connectors. If connecting two computers together without a hub in between, a crossover LAN cable is required (Fast-Ethernet model). (Gigabit models support auto-crossover so a crossover LAN cable is optional.)

Example of the UltraMobilePC connected to a Network Hub or Switch for use with the built-in Ethernet controller.



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Wireless LAN Connection (on selected models)

The optional built-in wireless LAN is a compact easy-to-use wireless Ethernet adapter. Implementing the IEEE 802.11 standard for wireless LAN (WLAN), the optional built-in wireless LAN is capable of fast data transmission rates using Direct Sequence Spread Spectrum (DSSS) and Orthogonal Frequency Division Multiplexing (OFDM) technologies on 2.4GHz/5GHz frequencies. The optional built-in wireless LAN is backward compatible with the earlier IEEE 802.11 standards allowing seamless interfacing of wireless LAN standards.

The optional built-in wireless LAN is a client adapter that supports Infrastructure and Ad-hoc modes giving you flexibility on your existing or future wireless network configurations for distances up to 40 meters between the client and the access point.

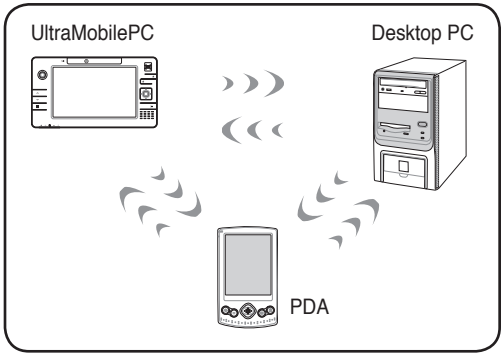
To provide efficient security to your wireless communication, the optional built-in wireless LAN comes with a 64-bit/128-bit Wired Equivalent Privacy (WEP) encryption and Wi-Fi Protected Access (WPA) features.

These are examples of the UltraMobilePC connected to a Wireless Network.

Ad-hoc mode

The Ad-hoc mode allows the UltraMobilePC to connect to another wireless device. No access point (AP) is required in this wireless environment.

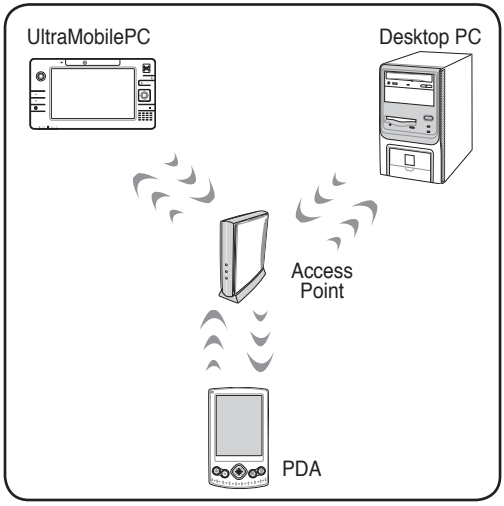
(All devices must install optional 802.11 wireless LAN adapters.)



Infrastructure mode

The Infrastructure mode allows the UltraMobilePC and other wireless devices to join a wireless network created by an Access Point (AP) (sold separately) that provides a central link for wireless clients to communicate with each other or with a wired network.

(All devices must install optional 802.11 wireless LAN adapters.)



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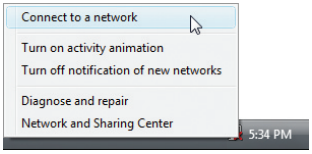
Windows Wireless Network Connection

Connecting to a network (Vista)

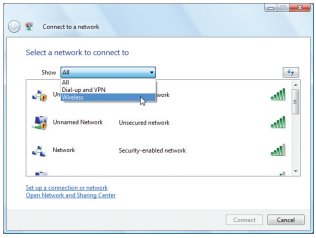
1. Press [WIRELESS] switch repeatedly until **Wireless LAN ON** or **WLAN & Bluetooth ON** is shown.

1b. Or double click the Wireless Console icon on the taskbar and select either the 1st icon to activate both Wireless & Bluetooth, or select the 2nd icon for Wireless activation only.

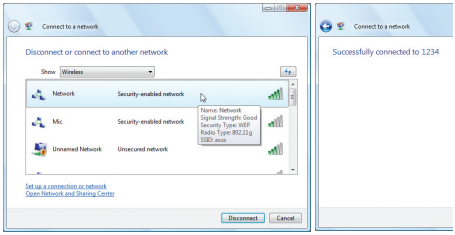
2. You should see the “Not Connected” network icon.



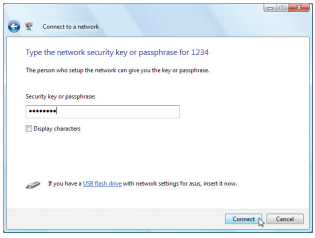
3. Right click on the WLAN icon and select **Connect to a network**.



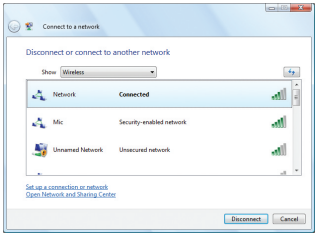
4. Select “Show **Wireless”** if you have many networks in your area.



5. Select the wireless network you want to connect to.


Connect to a network
Type the network security key or passphrase for 1234
The person who setup the network can give you the key or passphrase.
Security key or passphrase:
Display characters
If you have a USB flash drive with network settings for asus, insert it now.
Connect
Cancel

6. When connecting, you may have to enter a password.



7. After connection has been established, “Connected” will be shown.

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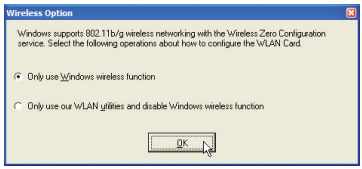
Windows Wireless Network Connection

Connecting to a network (XP)

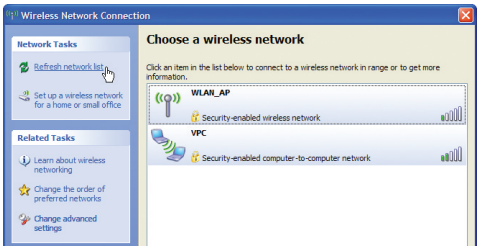
Using Windows XP wireless settings require that you select this option in the **ASUS WLAN Control Center**.


Wireless Option
Windows supports 802.11b/g wireless networking with the Wireless Zero Configuration service. Select the following operations about how to configure the WLAN Card.
Only use Windows wireless function
Only use our WLAN utilities and disable Windows wireless function
OK

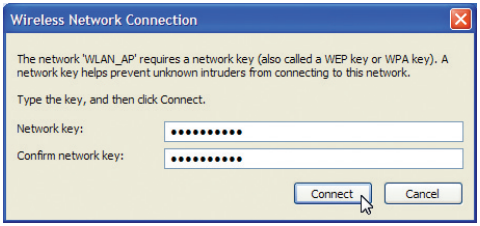
1. Press [WIRELESS] switch repeatedly until **Wireless LAN ON** or **WLAN & Bluetooth ON** is shown.

1b. Or double click the Wireless Console icon on the taskbar and click on the 1st icon to activate both Wireless & Bluetooth, or select the 2nd icon for Wireless activation only.

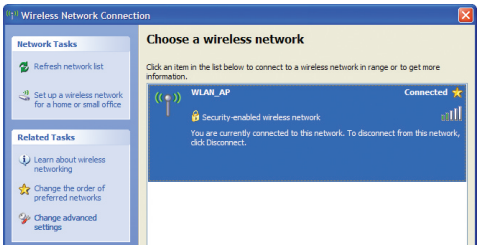
2. Double click the WLAN icon on the taskbar.


Wireless Network Connection
Network Tasks
Refresh network list
Set up a wireless network for a home or small office
Related Tasks
Learn about wireless networking
Change the order of preferred networks
Change advanced settings
Choose a wireless network
Click an item in the list below to connect to a wireless network in range or to get more information.
WLAN_AP
Security-enabled wireless network
VPC
Security-enabled computer-to-computer network

3. Select **Refresh network list** from the left side menu and a list of available network within your area and its signal strength will show. Select your network and click on **Connect**.


Wireless Network Connection
The network 'WLAN_AP' requires a network key (also called a WEP key or WPA key). A network key helps prevent unknown intruders from connecting to this network.
Type the key, and then click Connect.
Network key:
Confirm network key:
Connect
Cancel

4. When connecting, you may have to enter a password.


Wireless Network Connection
Network Tasks
Refresh network list
Set up a wireless network for a home or small office
Related Tasks
Learn about wireless networking
Change the order of preferred networks
Change advanced settings
Choose a wireless network
Click an item in the list below to connect to a wireless network in range or to get more information.
WLAN_AP
Connected
Security-enabled wireless network
You are currently connected to this network. To disconnect from this network, click Disconnect.

5. After connection has been established, "Connected" will be shown on the right side above the signal strength indicator.

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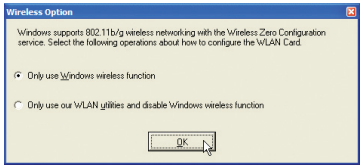
ASUS Wireless LAN (on selected models)

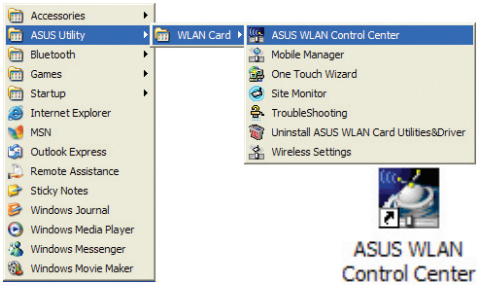
Connecting to a network

Using ASUS wireless settings require that you select this option in the **ASUS WLAN Control Center**.

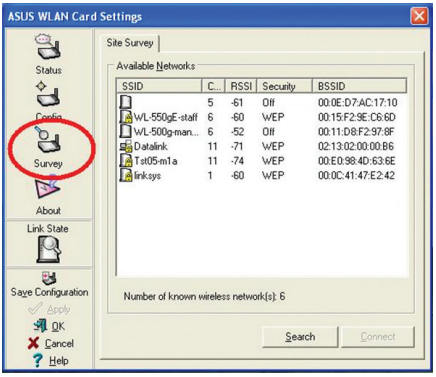

Wireless Option
Windows supports 802.11b/g wireless networking with the Wireless Zero Configuration service. Select the following operations about how to configure the WLAN Card.
Only use Windows wireless function
Only use our WLAN utilities and disable Windows wireless function
OK

1. Press [WIRELESS] switch repeatedly until **Wireless LAN ON** or **WLAN & Bluetooth ON** is shown.

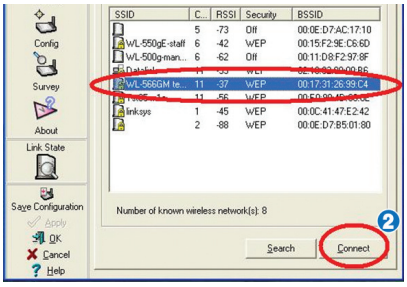
1b. Or double click the Wireless Console icon on the taskbar and click on the 1st icon to activate both Wireless & Bluetooth, or select the 2nd icon for Wireless activation only.



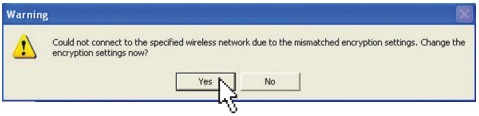
2. Double click the icon on the desktop or click **Start | Programs | ASUS Utility | WLAN Card | ASUS WLAN Control Center.**



3. On the left hand side menu, click **Survey** to start scanning for available networks in your area



4. The list will show all available networks within your area. Select the network you want and click **Connect**.


Warning
Could not connect to the specified wireless network due to the mismatched encryption settings. Change the encryption settings now?
Yes
No

5. If the selected Network has security settings, you may be required to enter a password.

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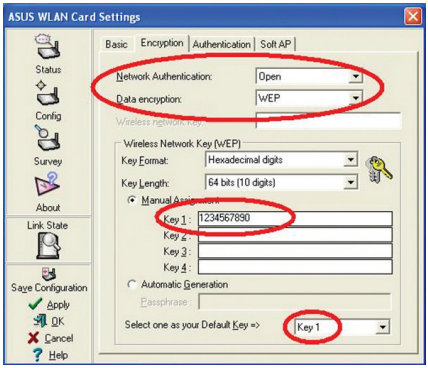
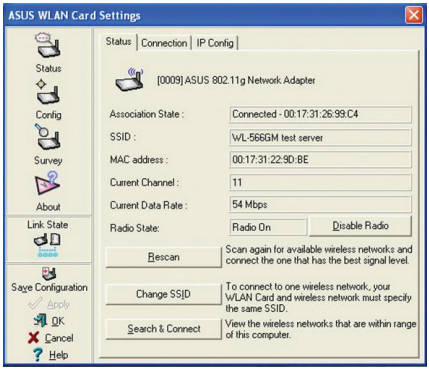
ASUS Wireless LAN (on selected models)

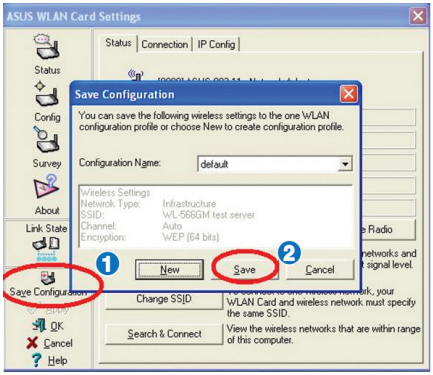
Connecting to a network (cont.)



6. Click the **Encryption** tab to configure the Network Authentication mode and Password.



7. The **Status** tab will show connection status and details.



Note: Click "Save Configuration" and "Save" to remember settings for this network.

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Bluetooth Wireless Connection (on selected models)

UltraMobilePCs with Bluetooth technology eliminates the need for cables for connecting Bluetooth-enabled devices. Examples of Bluetooth-enabled devices may be Notebook PCs, Desktop PCs, mobile phones, and PDAs.

Note: If your UltraMobilePC did not come with built-in Bluetooth, you need to connect a USB or ExpressCard Bluetooth module in order to use Bluetooth.

Bluetooth-enabled mobile phones

You can wireless connect to your mobile phone. Depending on your mobile phone's capabilities, you can transfer phone book data, photos, sound files, etc. or use it as a modem to connect to the Internet. You may also use it for SMS messaging.

Bluetooth-enabled computers or PDAs

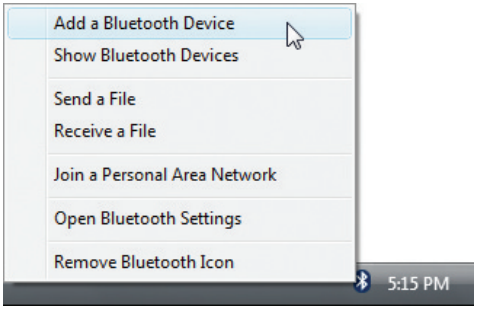
You can wireless connect to another computer or PDA and exchange files, share peripherals, or share Internet or network connections. You may also make use of Bluetooth-enabled wireless keyboard or mouse.

Turning ON and Launching Bluetooth Utility (Vista)

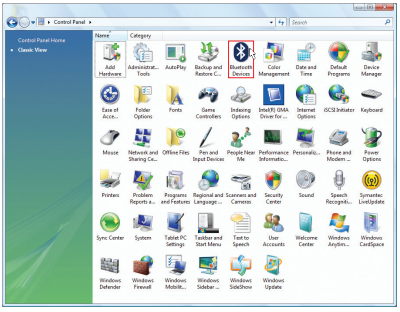
This process can be used to add most Bluetooth devices. See Appendix for complete process.

1. Press [WIRELESS] switch repeatedly until **Bluetooth ON** or **WLAN & Bluetooth ON** is shown.

1b. Or double click the Wireless Console icon on the taskbar and select either the 1st icon to activate both Wireless & Bluetooth, or select the 3rd icon for Bluetooth activation only.



2. Select **Add a Bluetooth Device** on the taskbar men.



2b. Or Launch **Bluetooth Devices** from the Windows Control Panel.

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Operating System and Software

This UltraMobilePC may offer (depending on territory) its customers the choice of a pre-installed **Microsoft Windows** operating system. The choices and languages will depend on the territory. The levels of hardware and software support may vary depending on the installed operating system. The stability and compatibility of other operating systems cannot be guaranteed.

Support Software

This UltraMobilePC comes with a support disc that provides BIOS, drivers and applications to enable hardware features, extend functionality, help manage your UltraMobilePC, or add functionality not provided by the native operating system. If updates or replacement of the support disc is necessary, contact your dealer for web sites to download individual software drivers and utilities.

The support disc contains all drivers, utilities and software for all popular operating systems including those that have been pre-installed. The support disc does not include the operating system itself. The support disc is necessary even if your UltraMobilePC came pre-configured in order to provide additional software not included as part of the factory pre-install.

A recovery disc is optional and includes an image of the original operating system installed on the hard drive at the factory. The recovery disc provides a comprehensive recovery solution that quickly restores the UltraMobilePC's operating system to its original working state provided that your hard disk drive is in good working order. Contact your retailer if you require such a solution.

Note: Some of the UltraMobilePC's components and features may not work until the device drivers and utilities are installed.

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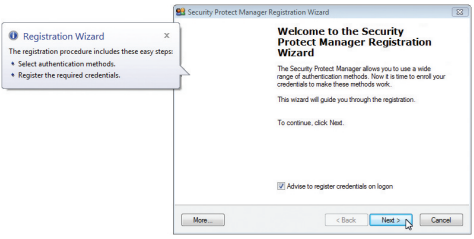
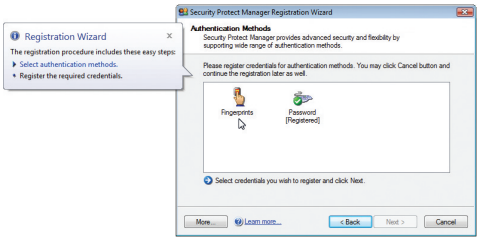
Fingerprint Registration (on selected models)

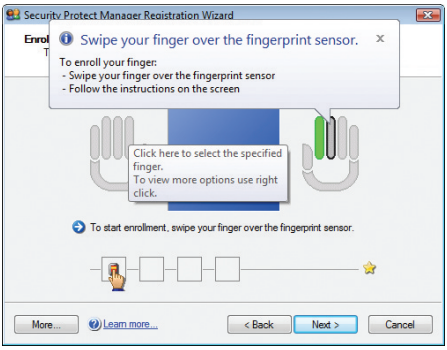
The fingerprint scanner can be used for instant and secure user authentication. These instructions will show you how to setup the fingerprint registration.


Registration Wizard
The registration procedure includes these easy steps:
Select authentication methods.
Register the required credentials.
Security Protect Manager Registration Wizard
Welcome to the Security Protect Manager Registration Wizard
The Security Protect Manager allows you to use a wide range of authentication methods. Now it is time to enroll your credentials to make these methods work.
This wizard will guide you through the registration.
To continue, click Next.
Advise to register credentials on logon
More...
< Back
Next >
Cancel

1. This wizard will automatically start when TPM is enabled in BIOS after setting security passwords. Click **Next** to continue.


Registration Wizard
The registration procedure includes these easy steps:
Select authentication methods.
Register the required credentials.
Security Protect Manager Registration Wizard
Authentication Methods
Security Protect Manager provides advanced security and flexibility by supporting wide range of authentication methods.
Please register credentials for authentication methods. You may click Cancel button and continue the registration later as well.
Fingerprints
Password [Registered]
Select credentials you wish to register and click Next.
More...
Learn more...
< Back
Next >
Cancel

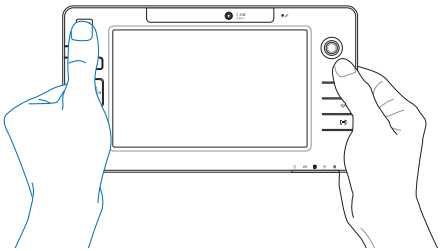
2. Select “Fingerprints” and click **Next.**


Security Protect Manager Registration Wizard
Swipe your finger over the fingerprint sensor.
To enroll your finger:
- Swipe your finger over the fingerprint sensor
- Follow the instructions on the screen
Click here to select the specified finger.
To view more options use right click.
To start enrollment, swipe your finger over the fingerprint sensor.
More...
Learn more...
< Back
Next >
Cancel

3. Select a finger on the diagram. Swipe the corresponding finger on the scanner slowly. You must swipe your finger multiple times for verification.

Security Protect Manager Registration Wizard
Enroll Your Fingerprints
The new fingerprints will be used next time you log on.
Swipe the same finger over the fingerprint sensor again.
More...
Learn more...
< Back
Next >
Cancel

4. You must register at least two fingers to decrease the chance of problems.



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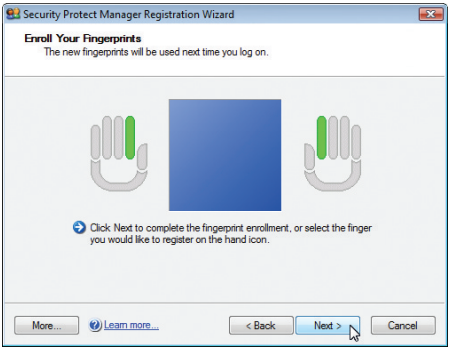
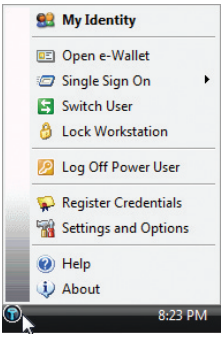
Fingerprint Registration (on selected models) cont.


Security Protect Manager Registration Wizard
Enroll Your Fingerprints
The new fingerprints will be used next time you log on.
Click Next to complete the fingerprint enrollment, or select the finger you would like to register on the hand icon.
More...
Learn more...
< Back
Next >
Cancel

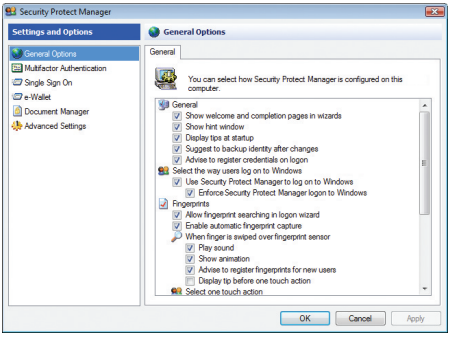
5. Select a finger on the diagram and swipe the corresponding finger on the scanner slowly. You must swipe your finger multiple times for verification. You must register at least two fingers to decrease the chance of any problems.

Security Protect Manager Registration Wizard
Completing the Security Protect Manager Registration Wizard
You have successfully registered your Fingerprints. Now you can use registered credentials to log on to Security Protect Manager.
With Security Protect Manager you can:
· Use registered credentials to log on to Windows
· Automate log on to other applications and Web sites
· Use other services and applications provided by Security Protect Manager
Yes, I want to use Security Protect Manager to logon to Windows
More...
Learn more...
< Back
Finish
Cancel

6. Click **Finish** when done.



7. Right-click the icon on the taskbar and select “Settings and Options”.



8. Select “General Options” and “Single Sign On” and configure your preferences.

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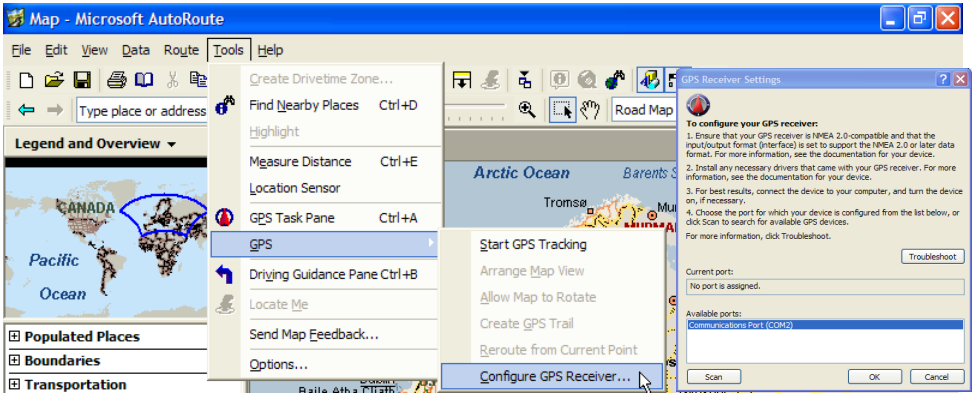
GPS Software (USA & Europe only)

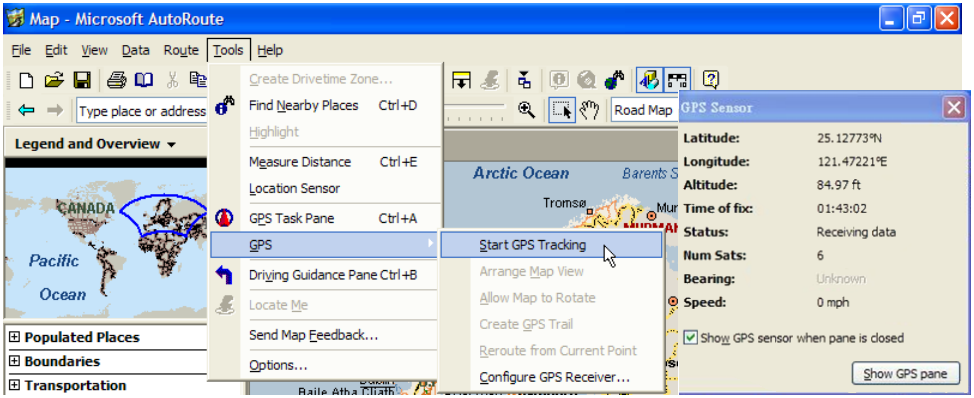
The included software may be used with the built-in GPS system.

Choose **Tools | GPS | Configure GPS Receiver...**, select **COM2**, and click **OK**.



Select **Tools | GPS | Start GPS Tracking**.

The GPS Sensor will acquire information for these fields once a satellite fix is acquired.



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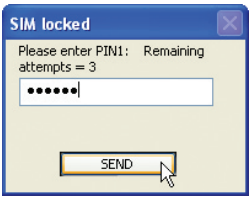
3G Watcher Software (on selected models)

The 3G[1] Watcher software application will allow your UltraMobilePC to connect to 3G wireless networks normally used by 3G mobile phones. When connected, your UltraMobilePC can connect to the Internet just like using a wireless network. A shortcut to the 3G Watcher application will be placed on your desktop. Double-click it to launch the 3G Watcher software application.



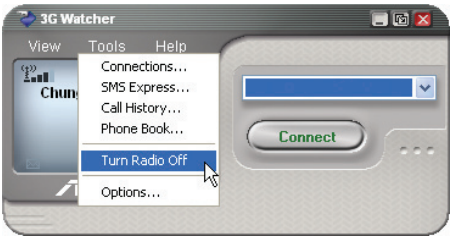
Launch the 3G Watcher application and your SIM card password (PIN1) will be asked if you have set one.

Once your PIN has been verified, searching for a 3G network will begin.

Once a 3G network has been discovered, click **Connect** to make a wireless network connection.

Once connected, the Connect button will show Disconnect instead.

Once connected, a message will appear with the network name.



When you are in an area that prohibits wireless transmissions (such as on an airplane), you can select **Turn Radio Off** from the "Tools" pull down menu.

Once the radio is turned OFF, an "x" will appear over the signal strength indicator.

[1] (See end of Section 4 for definition)

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3G Watcher Software (on selected models) cont.

Watcher window

Icons and indicators on the main window

The main Watcher window provides status information and allows you to initiate and monitor data connections or make and receive phone calls (if voice is supported by your 3G modem and your service provider). The main window uses these indicators:

	Device status. If an icon of the 3G modem with an "X" is displayed, Watcher is unable to detect the 3G modem. This indicates that the 3G modem is not fully inserted into the PC Card slot (in the case of non-embedded modems) or it is powered down. You may be able to resolve this problem by: • Ejecting the 3G modem and re-inserting it • Turning the WWAN switch on your PC off and on
	Signal strength and service status. The number of bars beside the antenna increases as signal strength increases, to a maximum of five bars. The ToolTip that displays when you position the mouse pointer over this indicator shows the RSSI (Received Signal Strength Indication) in dBm.
	An antenna with a line through it indicates no service is available (Not in Service). You are outside of the coverage area or have insufficient signal strength to maintain a GSM data connection.
gprs edge 3G HS	**Coverage.** The icon shows the fastest service available: • GPRS icon - GPRS is the fastest service available in your current coverage area. • EDGE icon - EDGE is the fastest service available in your current coverage area. (supported on EDGE 3G modems) • 3G icon - UMTS is the fastest service available in your current coverage area. (supported on UMTS 3G modems) • HS icon - HSDPA is the fastest service available in your current coverage area. (supported on HSDPA 3G modems) When only the letters are displayed, (for example edge), you are within the coverage area, but have not yet acquired the service. When the indicator has an outline ( ), you have acquired service and are able to establish a data connection. When the indicator is filled ( ), you have a data connection on the wireless service.

(continued on next page)

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3G Watcher Software (on selected models) cont.

	Roaming. You are connected to a network other than your local service provider's. There may be a surcharge for roaming service. (This service may not be available.)
	New SMS message. Click the icon to open the SMS Express window and read your messages. When your SIM becomes full, this icon flashes and turns red. (Supported only on selected devices.)
	Data transmission. When the modem is connected to the network, the main Watcher window shows the amount of data received and sent.

If your service provider ask you to enter a GSM command (otherwise called a code or procedure), type the command from the main window.

System Tray Icons

Anytime Watcher is running, the Watcher icon appears in the system tray, indicating the connection status:

	Watcher cannot detect the 3G modem. Ensure that the 3G modem is powered on.
	You do not have an active high-speed connection.
	You have an active high-speed connection.
	You have new (unread) SMS messages.

3G (or 3-G) (on selected models)

Short for third-generation technology. It is used in the context of mobile phone standards. The services associated with 3G provide the ability to transfer simultaneously both voice data (a telephone call) and non-voice data (such as downloading information, exchanging email, and instant messaging). In marketing 3G services, video telephony has often been used as the main-stream application for 3G. Selected models integrate a SIM card slot for insertion of a 3G SIM card which is required to use 3G applications.

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Appendix

Optional Accessories
Optional Connections
Glossary
Declarations and Safety Statements
UltraMobilePC Information

NOTE: Photos and icons in this manual are used for artistic purposes only and do not show what is actually used in the product itself.

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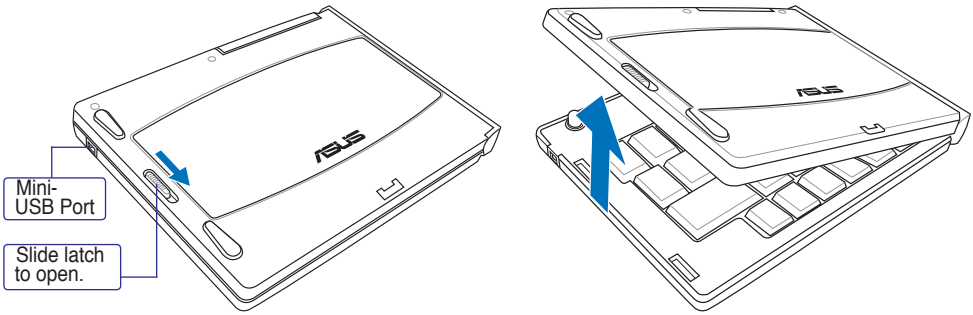
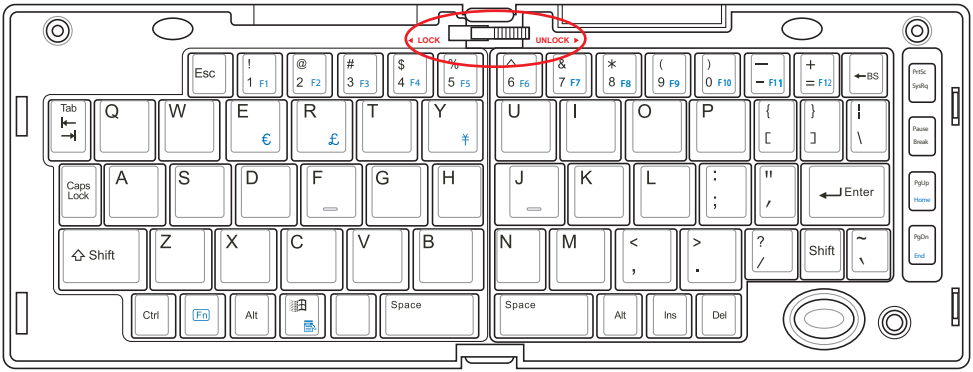
Optional Accessories

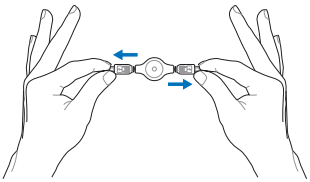
These items, if desired, come as optional items to complement your UltraMobilePC.

Foldable USB Keyboard

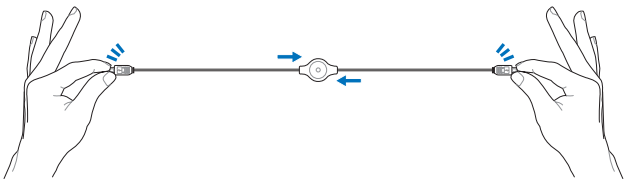




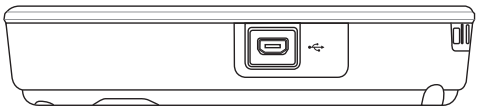
Slide latch on the top to lock the keyboard in the open position.



Extend: Pull the USB connectors apart (not fully) to extend the mini-USB cable. (Note: If you pull too much, it will retract.)



Retract: Pull the USB connectors fully apart and allow the internal spring to automatically retract the mini-USB cable.



Connect the mini-USB cable to the foldable USB keyboard (left side) and the mini-USB port on the UltraMobilePC (left side).

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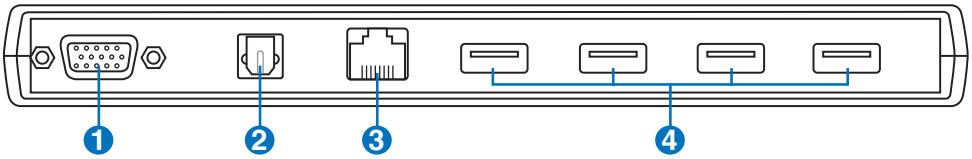
PortBar

Notes: (1) AC power adapter must be used. Cannot be used when UltraMobilePC is in battery mode. (2) Recommend using two AC power adapters (one on the UltraMobilePC and one on the PortBar) when using all ports on UltraMobilePC and PortBar. (3) Disables UltraMobilePC's LAN port when connected.



1 Display (Monitor) Output (with provided adapter)

The provided VGA adapter for the expansion port will provide a 15-pin D-sub analog output to support a standard VGA-compatible device such as a monitor or projector to allow displaying on a larger external monitor.

2 SPDIF Output Jack (SPDIF Output)

This jack provides connection to SPDIF (Sony/Philips Digital Interface) compliant devices for digital audio output. Use this feature to turn the UltraMobilePC into a hi-fi home entertainment system.

3 LAN Port (disabled when using PortBar)

The RJ-45 LAN port with eight pins is larger than the RJ-11 modem port and supports a standard Ethernet cable for connection to a local network. The built-in connector allows convenient use without additional adapters.

4 USB Port (2.0/1.1)

The USB (Universal Serial Bus) port is compatible with USB 2.0 or USB 1.1 devices such as keyboards, pointing devices, cameras, hard disk drives, printers, and scanners connected in a series up to 12Mbits/sec (USB 1.1) and 480Mbits/sec (USB 2.0). USB allows many devices to run simultaneously on a single computer, with some peripherals acting as additional plug-in sites or hubs. USB supports hot-swapping of devices so that most peripherals can be connected or disconnected without restarting the computer.

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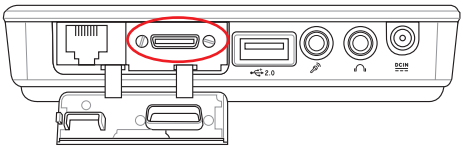
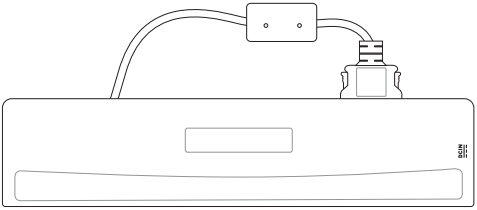
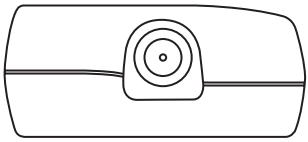
PortBar (Cont.)



Plug the PortBar to the expansion port.



Keep the PortBar connector in the keeper when not in use to protect the contacts.



Plug the UltraMobilePC's power adapter into this power port so that you can easily free the UltraMobilePC from all your peripherals with just one connector.

WARNING! You must plug the power adapter into the UltraMobilePC or PortBar when you use PortBar. The PortBar must not be used when the UltraMobilePC is operating in battery mode.

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More Optional Accessories

These items, if desired, come as optional items to complement your UltraMobilePC.

USB Hub (Optional)

Attaching an optional USB hub will increase your USB ports and allow you to quickly connect or disconnect many USB peripherals through a single cable.

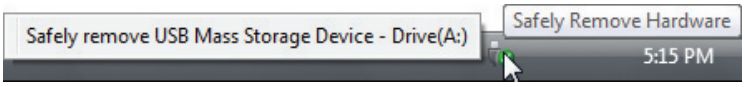
USB Flash Memory Disk

A USB flash memory disk is an optional item that can replace the 1.44MB floppy disk and provide storage up to several hundred megabytes, higher transfer speeds, and greater durability. When used in current operating systems, no drivers are necessary.

USB Floppy Disk Drive

An optional USB-interface floppy disk drive can accept a standard 1.44MB (or 720KB) 3.5-inch floppy diskette.

WARNING! To prevent system failures, use Windows "Safely Remove Hardware" on the taskbar before disconnecting the USB floppy disk drive. Eject the floppy disk before transporting the UltraMobilePC to prevent damage from shock.



Vehicle Power Adapter

The vehicle power adapter provides a source of power for using the UltraMobilePC and/or charging the UltraMobilePC's battery pack while in transit when no AC power is available. This product is an essential tool for today's mobile professional. Your purchase will enhance the power, performance, and versatility of your portable computer while traveling on the road or on the sea. The Vehicle Power Adapter can be used in vehicles or boats using a standard cigarette lighter socket. The Vehicle Power Adapter accepts input ranges from 10.8VDC (Volts - Direct Current) to 16VDC and provides 19VDC up to 120W (Watts).

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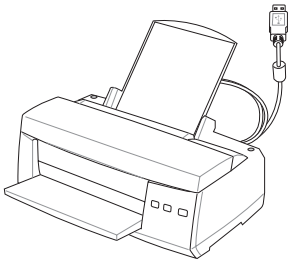
Optional Connections

These items, if desired, may be purchased from third-parties.

Printer Connection

One or more USB printers can be simultaneously used on any USB port or USB hub.



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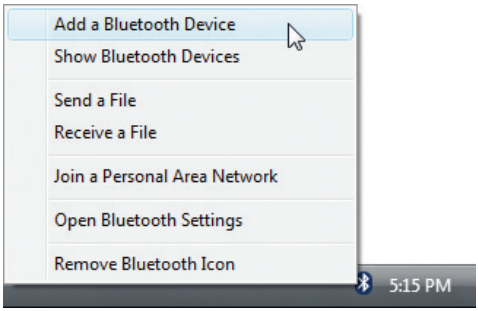
Bluetooth Mouse Setup (optional)

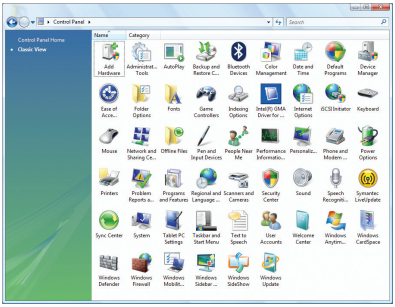
This process can be used to add most Bluetooth devices in Windows operating system.

1. Press [WIRELESS] switch repeatedly until **Bluetooth ON** or **WLAN & Bluetooth ON** is shown.

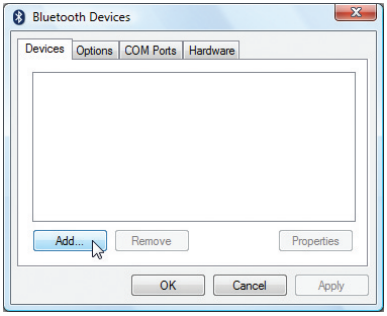
1b. Or double click the Wireless Console icon on the taskbar and select either the 1st icon to activate both Wireless & Bluetooth, or select the 3rd icon for Bluetooth activation only.



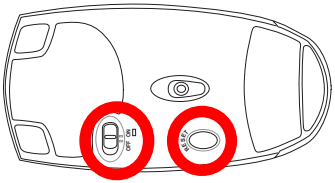
2. Select **Add a Bluetooth Device** on the taskbar menu.



2b. Or Launch **Bluetooth Devices** from the Windows Control Panel.



2c. If launched from the Control Panel, click **Add** from this screen.



3. Prepare the Bluetooth mouse.

- Install two “AA” batteries.
- Turn ON the power switch on the bottom of the mouse. The bottom sensor should glow red.
- Push the “RESET” button on the bottom of the Bluetooth mouse.

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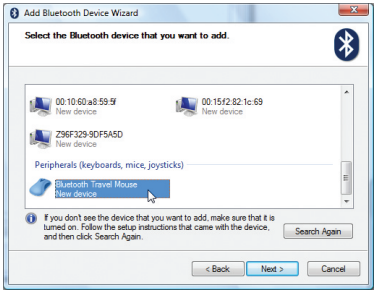
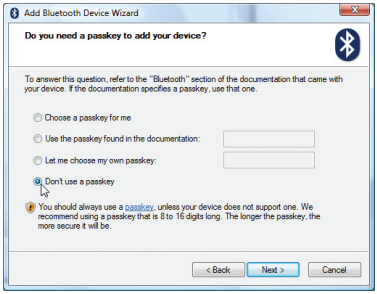
Bluetooth Mouse Setup (optional) cont.

Add Bluetooth Device Wizard
Welcome to the Add Bluetooth Device Wizard
Before proceeding, refer to the "Bluetooth" section of the device documentation. Then set up your device so that your computer can find it.
- Turn it on
- Make it discoverable (visible)
- Give it a name (optional)
- Press the button on the bottom of the device (keyboards and mice only)
My device is set up and ready to be found.
Add only Bluetooth devices that you trust.
< Back
Next >
Cancel

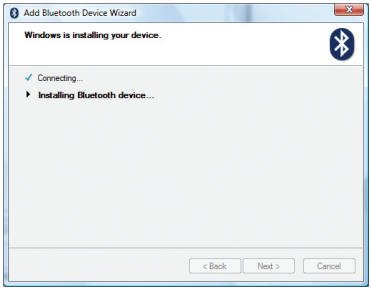
4. Click **Next** when the Bluetooth mouse is ready.


Add Bluetooth Device Wizard
Select the Bluetooth device that you want to add.
00:10:60:a8:59:5f
New device
00:15:f2:82:1c:69
New device
Z96F329-9DF5A5D
New device
Peripherals (keyboards, mice, joysticks)
Bluetooth Travel Mouse
New device
If you don't see the device that you want to add, make sure that it is turned on. Follow the setup instructions that came with the device, and then click Search Again.
Search Again
< Back
Next >
Cancel

5. A list of nearby Bluetooth devices will be shown. Select the Bluetooth mouse and click **Next**.


Add Bluetooth Device Wizard
Do you need a passkey to add your device?
To answer this question, refer to the "Bluetooth" section of the documentation that came with your device. If the documentation specifies a passkey, use that one.
Choose a passkey for me
Use the passkey found in the documentation:
Let me choose my own passkey:
Don't use a passkey
You should always use a passkey, unless your device does not support one. We recommend using a passkey that is 8 to 16 digits long. The longer the passkey, the more secure it will be.
< Back
Next >
Cancel

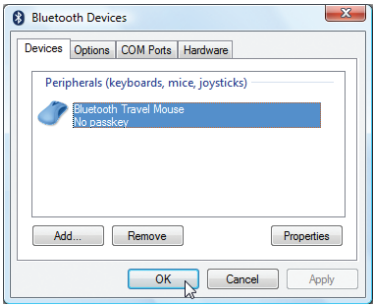
6. Select "Don't use a passkey" and click **Next**.



7. Wait while the Bluetooth mouse is being added.

Add Bluetooth Device Wizard
Completing the Add Bluetooth Device Wizard
The Bluetooth device was successfully connected to your computer. Your computer and the device can communicate whenever they are near each other.
To close this wizard, click Finish.
< Back
Finish
Cancel

8. Click **Finish** when adding is complete.



9. You will see your device in the window. You can also add or remove Bluetooth devices here.

Note: "RESET" may be necessary after changing batteries. Repeat steps if necessary.

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Glossary

ACPI (Advanced Configuration and Power Management Interface)

Modern standard for reducing power usage in computers.

APM (Advanced Power Management)

Modern standard for reducing power usage in computers.

AWG (American Wire Gauge)

NOTE: This table is for general reference only and should not be used as a source of the American Wire Gauge standard as this table may not be current or complete.

Gauge AWG	Diam (mm)	Area (mm2)	R (ohm/km)	I@3A/mm2 (mA)
33	0.18	0.026	676	75
	0.19	0.028	605	85
32	0.20	0.031	547	93
30	0.25	0.049	351	147
29	0.30	0.071	243	212
27	0.35	0.096	178	288
26	0.40	0.13	137	378
25	0.45	0.16	108	477

Gauge AWG	Diam (mm)	Area (mm2)	R (ohm/km)	I@3A/mm2 (mA)
24	0.50	0.20	87.5	588
	0.55	0.24	72.3	715
	0.60	0.28	60.7	850
22	0.65	0.33	51.7	1.0 A
	0.70	0.39	44.6	1.16 A
	0.75	0.44	38.9	1.32 A
20	0.80	0.50	34.1	1.51 A
	0.85	0.57	30.2	1.70 A

BIOS (Basic Input/Output System)

BIOS is a set of routines that affect how the computer transfers data between computer components, such as memory, disks, and the display adapter. The BIOS instructions are built into the computer's read-only memory. BIOS parameters can be configured by the user through the BIOS Setup program. The BIOS can be updated using the provided utility to copy a new BIOS file into the EEPROM.

Bit (Binary Digit)

Represents the smallest unit of data used by the computer. A bit can have one of two values: 0 or 1.

Boot

Boot means to start the computer operating system by loading it into system memory. When the manual instructs you to "boot" your system (or computer), it means to turn ON your computer. "Reboot" means to restart your computer. When using Windows 95 or later, selecting "Restart" from "Start | Shut Down..." will reboot your computer.

Bluetooth (on selected models)

Bluetooth is a short-range wireless technology that lets you connect computers, mobile phones, and handheld devices to each other and to the Internet. Bluetooth technology eliminates the ned for the cables that connect devices together. Bluetooth-enabled devices connect wirelessly within a 10 m range.

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Byte (Binary Term)

One byte is a group of eight contiguous bits. A byte is used to represent a single alphanumeric character, punctuation mark, or other symbol.

Clock Throttling

Chipset function which allows the processor's clock to be stopped and started at a known duty cycle. Clock throttling is used for power savings, thermal management, and reducing processing speed.

CPU (Central Processing Unit)

The CPU, sometimes called "Processor," actually functions as the "brain" of the computer. It interprets and executes program commands and processes data stored in memory.

Driver

A device driver is a special set of software instructions that allows the computer's operating system to communicate with hardware devices such as VGA, audio, Ethernet, printer, or modem. Usually a driver is supplied with the corresponding hardware device.

DVD (Digital Versatile Disk)

DVD is essentially a bigger, faster CD that can hold video as well as audio and computer data with the same physical dimension. With these capacities and access rates, DVD discs can provide you with dramatically-enhanced high-color, full-motion videos, better graphics, sharper pictures, and digital audio for a theater-like experience. DVD aims to encompass home entertainment, computers, and business information with a single digital format, eventually replacing audio CD, videotape, laserdisc, CD-ROM, and video game cartridges. To view DVD, a DVD drive is required.

Hardware

Hardware is a general term referring to the physical components of a computer system, including peripherals such as printers, modems, and pointing devices.

Hibernation Mode

A power mode that saves all data in memory to the hard disk and turns the CPU and hard disk off. When canceling Hibernation Mode, all application programs that were running are restored to their last state.

IDE (Integrated Drive Electronics)

IDE devices integrate the drive control circuitry directly on the drive itself, eliminating the need for a separate adapter card (in the case for SCSI devices). UltraDMA/66 or 100 IDE devices can achieve up to 33MB/Sec transfer.

POST (Power On Self Test)

When you turn on the computer, it will first run through the POST, a series of software-controlled diagnostic tests. The POST checks system memory, the motherboard circuitry, the display, the keyboard, the diskette drive, and other I/O devices.

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RAM (Random Access Memory)

RAM (usually just called memory) is the place in a computer where the operating system, application programs, and data in current use are temporarily kept so that they can be quickly reached by the computer's processor instead of having to read from and write to slower storage such as the hard disk or optical disc.

Standby Mode

A power mode that enables a computer to save power consumption while not in use. When a computer is in Standby Mode, the data on the computer memory is not saved onto the hard disk. If the power is tuned off, the data in memory will be lost.

Suspend Mode

In Save-to-RAM (STR) and Save-to-Disk (STD), the CPU clock is stopped and most of the UltraMobilePC devices are put in their lowest active state. The UltraMobilePC enters Suspend when the system remains idle for a specified amount of time or manually using the function keys. The time-out setting of both Hard Disk and Video can be set by the BIOS Setup. The Power LED blinks when the UltraMobilePC is in STR mode. In STD mode, the UltraMobilePC will appear to be powered OFF.

System Disk

A system disk contains the core file of an operating system and is used to boot up the operating system.

Twisted-Pair Cable

The cable used to connect the Ethernet card to a host (generally a Hub or Switch) is called a straight-through Twisted Pair Ethernet (TPE). The end connectors are called RJ-45 connectors, which are not compatible with RJ-11 telephone connectors. If connecting two computers together without a hub in between, a crossover twisted-pair is required.

UltraDMA/66 or 100

UltraDMA/66 or 100 are new specifications to improve IDE transfer rates. Unlike traditional PIO mode, which only uses the rising edge of IDE command signal to transfer data, UltraDMA/66 or 100 uses both rising edge and falling edge.

USB (Universal Serial Bus)

A new 4-pin serial peripheral bus that allows plug and play computer peripherals such as keyboard, mouse, joystick, scanner, printer and modem/ISDN to be automatically configured when they are attached physically without having to install drivers or reboot. With USB, the traditional complex cables from back panel of your computer can be eliminated.

Windows

The name of the operating system developed by Microsoft Corporation and used on this computer.

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Certifications

Federal Communications Commission Statement

This device complies with FCC Rules Part 15. Operation is subject to the following two conditions:

- This device may not cause harmful interference, and
- This device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a class B digital device, pursuant to Part 15 of the Federal Communications Commission (FCC) rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

WARNING! The use of a shielded-type power cord is required in order to meet FCC emission limits and to prevent interference to the nearby radio and television reception. It is essential that only the supplied power cord be used. Use only shielded cables to connect I/O devices to this equipment. You are cautioned that changes or modifications not expressly approved by the party responsible for compliance could void your authority to operate the equipment.

(Reprinted from the Code of Federal Regulations #47, part 15.193, 1993. Washington DC: Office of the Federal Register, National Archives and Records Administration, U.S. Government Printing Office.)

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FCC Radio Frequency Interference Requirements

This device is restricted to INDOOR USE due to its operation in the 5.15 to 5.25GHz frequency range. FCC requires this product to be used indoors for the frequency range 5.15 to 5.25GHz to reduce the potential for harmful interference to co-channel of the Mobile Satellite Systems.

High power radars are allocated as primary user of the 5.25 to 5.35GHz and 5.65 to 5.85GHz bands. These radar stations can cause interference with and / or damage this device.

IMPORTANT: This device and its antenna(s) must not be co-located or operating in conjunction with any other antenna or transmitter.

FCC Radio Frequency (RF) Exposure Caution Statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. To maintain compliance with FCC RF exposure compliance requirements, please avoid direct contact to the transmitting antenna during transmitting. End users must follow the specific operating instructions for satisfying RF exposure compliance.

For operation within 5.15GHz and 5.25GHz frequency ranges, it is restricted to indoor environment, and the antenna of this device must be integral.

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment. "The manufacture declares that this device is limited to Channels 1 through 11 in the 2.4GHz frequency by specified firmware controlled in the USA."

FCC RF Exposure Guidelines (Wireless Clients)

This device has been tested for compliance with FCC RF Exposure (SAR) limits in typical portable configurations. In order to comply with SAR limits established in the ANSI C95.1 standards, it is recommended when using a wireless LAN adapter that the integrated antenna is positioned more than [20cm] from your body or nearby persons during extended periods of operation. If the antenna is positioned less than [20cm] from the user, it is recommended that the user limit the exposure time.

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Declaration of Conformity (R&TTE directive 1999/5/EC)

The following items were completed and are considered relevant and sufficient:

- Essential requirements as in [Article 3]
- Protection requirements for health and safety as in [Article 3.1a]
- Testing for electric safety according to [EN 60950]
- Protection requirements for electromagnetic compatibility in [Article 3.1b]
- Testing for electromagnetic compatibility in [EN 301 489-1] & [EN 301]
- Testing according to [489-17]
- Effective use of the radio spectrum as in [Article 3.2]
- Radio test suites according to [EN 300 328-2]

CE Mark Warning

This is a Class B product, in a domestic environment, this product may cause radio interference, in which case the user may be required to take adequate measures.

IC Radiation Exposure Statement for Canada

This equipment complies with IC radiation exposure limits set forth for an uncontrolled environment. To maintain compliance with IC RF exposure compliance requirements, please avoid direct contact to the transmitting antenna during transmitting. End users must follow the specific operating instructions for satisfying RF exposure compliance.

Operation is subject to the following two conditions:

- This device may not cause interference and
- This device must accept any interference, including interference that may cause undesired operation of the device.

To prevent radio interference to the licensed service (i.e. co-channel Mobile Satellite systems) this device is intended to be operated indoors and away from windows to provide maximum shielding. Equipment (or its transmit antenna) that is installed outdoors is subject to licensing.

Because high power radars are allocated as primary users (meaning they have priority) in 5250-5350 MHz, these radars could cause interference and/or damage to license exempt LAN devices.

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Wireless Operation Channel for Different Domains

N. America	2.412-2.462 GHz	Ch01 through CH11
Japan	2.412-2.484 GHz	Ch01 through Ch14
Europe ETSI	2.412-2.472 GHz	Ch01 through Ch13

France Restricted Wireless Frequency Bands

Some areas of France have a restricted frequency band. The worst case maximum authorized power indoors are:

- 10mW for the entire 2.4 GHz band (2400 MHz–2483.5 MHz)
- 100mW for frequencies between 2446.5 MHz and 2483.5 MHz

NOTE: Channels 10 through 13 inclusive operate in the band 2446.6 MHz to 2483.5 MHz.

There are few possibilities for outdoor use: On private property or on the private property of public persons, use is subject to a preliminary authorization procedure by the Ministry of Defense, with maximum authorized power of 100mW in the 2446.5–2483.5 MHz band. Use outdoors on public property is not permitted.

In the departments listed below, for the entire 2.4 GHz band:

- Maximum authorized power indoors is 100mW
- Maximum authorized power outdoors is 10mW

Departments in which the use of the 2400–2483.5 MHz band is permitted with an EIRP of less than 100mW indoors and less than 10mW outdoors:

01 Ain Orientales	02 Aisne	03 Allier	05 Hautes Alpes
08 Ardennes	09 Ariège	11 Aude	12 Aveyron
16 Charente	24 Dordogne	25 Doubs	26 Drôme
32 Gers	36 Indre	37 Indre et Loire	41 Loir et Cher
45 Loiret	50 Manche	55 Meuse	58 Nièvre
59 Nord	60 Oise	61 Orne	63 Puy du Dôme
64 Pyrénées Atlantique	66 Pyrénées	67 Bas Rhin	68 Haut Rhin
70 Haute Saône	71 Saône et Loire	75 Paris	82 Tarn et Garonne
84 Vaucluse	88 Vosges	89 Yonne	90 Territoire de Belfort
94 Val de Marne			

This requirement is likely to change over time, allowing you to use your wireless LAN card in more areas within France. Please check with ART for the latest information (www.art-telecom.fr)

NOTE: Your WLAN Card transmits less than 100mW, but more than 10mW.

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UL Safety Notices

Required for UL 1459 covering telecommunications (telephone) equipment intended to be electrically connected to a telecommunication network that has an operating voltage to ground that does not exceed 200V peak, 300V peak-to-peak, and 105V rms, and installed or used in accordance with the National Electrical Code (NFPA 70).

When using the UltraMobilePC modem, basic safety precautions should always be followed to reduce the risk of fire, electric shock, and injury to persons, including the following:

- **Do not use** the UltraMobilePC near water, for example, near a bath tub, wash bowl, kitchen sink or laundry tub, in a wet basement or near a swimming pool.
- **Do not use** the UltraMobilePC during an electrical storm. There may be a remote risk of electric shock from lightning.
- **Do not use** the UltraMobilePC in the vicinity of a gas leak.

Required for UL 1642 covering primary (non-rechargeable) and secondary (rechargeable) lithium batteries for use as power sources in products. These batteries contain metallic lithium, or a lithium alloy, or a lithium ion, and may consist of a single electrochemical cell or two or more cells connected in series, parallel, or both, that convert chemical energy into electrical energy by an irreversible or reversible chemical reaction.

- **Do not** dispose the UltraMobilePC battery pack in a fire, as they may explode. Check with local codes for possible special disposal instructions to reduce the risk of injury to persons due to fire or explosion.
- **Do not** use power adapters or batteries from other devices to reduce the risk of injury to persons due to fire or explosion. Use only UL certified power adapters or batteries supplied by the manufacturer or authorized retailers.

Power Safety Requirement

Products with electrical current ratings up to 6A and weighing more than 3Kg must use approved power cords greater than or equal to: H05VV-F, 3G, 0.75mm^2 or H05VV-F, 2G, 0.75mm^2.

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Nordic Lithium Cautions (for lithium-ion batteries)

CAUTION! Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type recommended by the manufacturer. Dispose of used batteries according to the manufacturer's instructions. (English)

ATTENZIONE! Rischio di esplosione della batteria se sostituita in modo errato. Sostituire la batteria con un una di tipo uguale o equivalente consigliata dalla fabbrica. Non disperdere le batterie nell'ambiente. (Italian)

VORSICHT! Explosionsgetahr bei unsachgemäßen Austausch der Batterie. Ersatz nur durch denselben oder einem vom Hersteller empfohlenem ähnlichen Typ. Entsorgung gebrauchter Batterien nach Angaben des Herstellers. (German)

ADVARSELI! Lithiumbatteri - Eksplosionsfare ved fejlagtig håndtering. Udskiftning må kun ske med batteri af samme fabrikat og type. Levér det brugte batteri tilbage til leverandøren. (Danish)

VARNING! Explosionsfara vid felaktigt batteribyte. Använd samma batterityp eller en ekvivalent typ som rekommenderas av apparattillverkaren. Kassera använt batteri enligt fabrikantens instruktion. (Swedish)

VAROITUS! Paristo voi räjähtää, jos se on virheellisesti asennettu. Vaihda paristo ainoastaan laitevalmistajan sousittelemaan tyyppiin. Hävitä käytetty paristo valmistagan ohjeiden mukaisesti. (Finnish)

ATTENTION! Il y a danger d'explosion s'il y a remplacement incorrect de la batterie. Remplacer uniquement avec une batterie du mêre type ou d'un type équivalent recommandé par le constructeur. Mettre au rebut les batteries usagées conformément aux instructions du fabricant. (French)

ADVARSEL! Eksplosjonsfare ved feilaktig skifte av batteri. Benytt samme batteritype eller en tilsvarende type anbefalt av apparatfabrikanten. Brukte batterier kasseres i henhold til fabrikantens instruksjoner. (Norwegian)

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